

COMMONWEALTH OF KENTUCKY
PUBLIC SERVICE COMMISSION

RECEIVED
MAR 08 2006
PUBLIC SERVICE
COMMISSION

In the matter of:

APPLICATION OF POWERTEL/MEMPHIS, INC.)
FOR A CERTIFICATE OF PUBLIC CONVENIENCE)
AND NECESSITY TO CONSTRUCT A WIRELESS)
TELECOMMUNICATIONS FACILITY IN)No.2006-00083
THE MADISONVILLE BASIC TRADING AREA)
[SEBREE FACILITY])

APPLICATION

Powertel/Memphis, Inc. ("Powertel") hereby applies for a Certificate of Public Convenience and Necessity to construct a 275' self-support communications tower located at 3702 State Route 370, Sebree, Webster County, Kentucky. In support of this Application and pursuant to 807 KAR 5:063, the Applicant states the following.

1. The full name and address of the Applicant is Powertel/Memphis, Inc., 12920 SE 38th Street, Bellevue, Washington 98006.
2. Powertel is a corporation organized and existing under the laws of the State of Delaware and is authorized to conduct business in Kentucky. Powertel's Certificate of Incorporation, as well as documentation describing various mergers and name-changes is included as "Exhibit A." A copy of Powertel's FCC license is included as "Exhibit B."
3. The proposed PCS facility will consist of a 275' lattice tower, with attached lightening rod extending upwards for a maximum total height of 280'. The equipment shelter will house transmitters and receivers that are required to connect the

facility with Powertel's customers and with its other wireless facilities. Powertel refers to the site for short-hand purposes as the "Sebree" site

5. Powertel investigated the search ring associated with the proposed facility for existing telecommunications towers, tall buildings, water tanks, and other suitable co-locatable structures. There are no such structures within Powertel's search area. A copy of the map, which clearly depicts T-Mobile's search area, is attached hereto as "Exhibit C."

6. A grid map that shows the location of all existing and future wireless antenna towers within Webster County and within a ½ mile area outside the boundaries of Webster County is included as "Exhibit D."

7. Powertel has obtained a geotechnical analysis of the proposed site that includes boring logs and foundation design recommendations. Said geotechnical report, signed and sealed by a professional engineer registered in Kentucky, is attached as "Exhibit E."

8. A Site Plan Development Plan, signed and sealed by a Professional Engineer registered in Kentucky is included as "Exhibit F". Said plan includes the proposed layout for the facility as well as the location of the access and utility easements for the site. The site development plan was prepared by Hardy Engineering, Inc., 209 Linden Street, Trussville, Alabama 35173.

9. Tower design drawings, signed and sealed by a Professional Engineer registered in Kentucky, are included as "Exhibit G." Said tower design drawings include the vertical tower profile and the foundation design for the site. The foundation design was developed with the information provided in the Geotechnical Investigation Report.

The design and foundation drawings were prepared by Valmont Microfect, 3575 25th Street SE, Salem, Oregon 97302.

10. A survey, signed and sealed by a professional engineer registered in Kentucky, that shows the proposed location of the tower and all easements and existing structures within 500 feet of the proposed site and all easements and structures within 200 feet of the access drive, including the intersection with the public street system, also is included in "Exhibit H". Said survey also includes a map, drawn to a scale no less than 1" = 200', that identifies every structure and owner of real estate within five hundred (500) feet of the proposed replacement monopole. Exhibit H also contains findings as to the proximity of the proposed site to flood hazard areas. The survey of the property was prepared by Sharondale Surveying, Inc., 4205 Hillsboro Pike, Hobbs Building Suite 301, Nashville, Tennessee 37215. Thus, a detailed description of the manner in which the proposed facility will be constructed may be found in Exhibits "E", "F", and "G."

11. Clear directions to the site from the county seat of Dixon, Webster County, Kentucky to the proposed site are included as "Exhibit I." Said directions were prepared by Bob Crammer, Site Acquisition Manager, Powertel/Memphis, Inc. Mr. Crammer may be reached at (502) 412-7527.

12. Powertel has secured a 100' by 100' lease area for location of the tower, concrete pad and equipment shelter. A copy of the Lease Agreement for the proposed site, with financial terms redacted is included as "Exhibit J." The site will be leased from Jackie A. Nunn.

13. Personnel responsible for the design and construction of the proposed facility are qualified and experienced. The initial design of the tower was prepared by

Jeffrey E. Grassman, P.E. of Valmont Microflect. Valmont Microflect is a nationally recognized manufacturer and designer of communication facilities. The Site Development Plan was prepared by Timothy Hardy, P.E. of Hardy Engineering, Inc. Hardy Engineering is recognized within the industry and has designed many wireless facilities sites, similar to the one proposed herein. Other persons directly responsible for the design and construction of the proposed facility are: F.V. Neeley, Licensed Professional Surveyor (KY lic #3093); Bell Heck, Construction Manager, Mittrex Engineering, Timothy G. LaGrow, P.E., Geotechnical Engineer (KY lic. #17758); and J.K. Tille, P.E., Structural Engineer (KY lic. # 20897).

In the event the initial designs of the tower and foundation are subsequently revised, the Powertel will amend this Application accordingly and will file with the Commission original and final drawings.

14. Appropriate notices (in compliance with 807 KAR 5:063(1)(t)(2)(a)), 2' x 4' in size have been posted in a visible location on the proposed site and on the nearest public road to the site. Said notices shall remain posted for at least two weeks from the date of filing of this Application. The location of the proposed facility has been published in *The Journal Enterprise*, which is a newspaper of general circulation in Webster County, Kentucky.

15. Public notices required by 807 KAR 5:063(1)(l) have been provided to every person who, according to the records of the property valuation administrator, owns property within 500 feet of the proposed monopole and who owns property contiguous to the site. Said notices were sent by certified mail, return receipt requested. The notices

informed each property owner of his or her right to request intervention in the Commission's proceedings on the Application.

16. A list of property owners so notified, together with copies of the certified letters, is attached as "Exhibit K". The County Judge Executive for Webster County also has been notified in writing of the proposed construction. Copies of said notices are included in "Exhibit J." Each notice letter included a map of the location of the proposed monopole replacement.

17. The area, as depicted in "Exhibit F", in which the proposed facility is to be constructed is zoned Agriculture as is all property surrounding property. The site currently is being used by the property owner, Mr. Nunn, as pasture for his cattle farming operation. The site is bounded to the south by an open field; to the north is another pasture and the property owner's residence to the north; pasture land to the west. To the east of the site is a mobile home, State Highway 370 E and a pasture. The nearest residence to the site is the mobile home which is on a small tract of land taken from the original property of Mr. Nunn in the southeast corner of his acreage. The immediate surrounding area is utilized for farming operations and an active coal mine across the highway.

18. The Applicant has considered the likely effects of the installation on nearby land uses and values and has concluded that there is no more suitable location reasonably available from which adequate service can be provided. There are no 275' tall structures within Powertel's search area. The proposed facility has been designed to accommodate additional wireless telecommunications carriers, thus reducing the need for additional towers in the area in the future. Due to the location of the site away from

informed each property owner of his or her right to request intervention in the Commission's proceedings on the Application.

16. A list of property owners so notified, together with copies of the certified letters, is attached as "Exhibit K". The County Judge Executive for Webster County also has been notified in writing of the proposed construction. Copies of said notices are included in "Exhibit K." Each notice letter included a map of the location of the proposed monopole replacement.

17. The area, as depicted in "Exhibit F", in which the proposed facility is to be constructed is zoned Agriculture as is all property surrounding property. The site currently is being used by the property owner, Mr. Nunn, as pasture for his cattle farming operation. The site is bounded to the south by an open field; to the north is another pasture and the property owner's residence to the north; pasture land to the west. To the east of the site is a mobile home, State Highway 370 E and a pasture. The nearest residence to the site is the mobile home which is on a small tract of land taken from the original property of Mr. Nunn in the southeast corner of his acreage. The immediate surrounding area is utilized for farming operations and an active coal mine across the highway.

18. The Applicant has considered the likely effects of the installation on nearby land uses and values and has concluded that there is no more suitable location reasonably available from which adequate service can be provided. There are no 275' tall structures within Powertel's search area. The proposed facility has been designed to accommodate additional wireless telecommunications carriers, thus reducing the need for additional towers in the area in the future. Due to the location of the site away from

other existing development, the impact, if any, upon the surrounding properties would be minimal. The proposed facility is needed to provide continuous coverage from Henderson, Kentucky to Oak Grove, Kentucky along the Pennyrile Parkway. Location of the tower at the proposed location also will allow Powertel to provide E-911 coverage thereby meeting its federal requirements for emergency location of callers using 911 along this rural parkway. The tower has been designed and will be built to meet engineering standard ANSI/TIA/EIA 22-F-1996 for 70 m.p.h. winds.

19. Any response to this Application may be directed to Sandra F. Keene at 401 West Main Street, Suite 1400, Louisville, Kentucky 40222 or by calling (502)584-1000.

Respectfully submitted,



Sandra F. Keene
TILFORD, DOBBINS, ALEXANDER
BUCKAWAY & BLACK, LLP
401 West Main Street, Suite 1400
Louisville, Kentucky 40202
(502) 584-1000

CERTIFICATE OF AMENDMENT
OF
CERTIFICATE OF INCORPORATION
OF
INTERCEL MEMPHIS MTA, INC.

InterCel Memphis MTA, Inc. (the "Corporation"), a corporation organized and existing under the General Corporation Law of the State of Delaware, does hereby certify as follows:

FIRST: That in accordance with the requirements of Section 242 of the General Corporation Law of the State of Delaware, the Board of Directors of the Corporation, acting by written consent signed by all of the directors of the Corporation pursuant to Section 141(f) of the General Corporation Law of the State of Delaware, duly adopted resolutions: (1) proposing and declaring advisable the changing of the Corporation's name to "Powertel/Memphis, Inc.," (2) proposing and declaring advisable the amendment of the Certificate of Incorporation of the Corporation to reflect such change and (3) recommending that such name change and amendment be submitted to the sole stockholder of the Corporation for consideration, action and approval.

SECOND: That the amendment to the Certificate of Incorporation of the Corporation is as follows:

ARTICLE FIRST of the Certificate of Incorporation of the Corporation is hereby amended to read in its entirety as follows:

"FIRST. The name of the corporation is
Powertel/Memphis, Inc. (the "Corporation")."

THIRD: That thereafter, pursuant to resolution of the Board of Directors, the sole stockholder of the Corporation, acting by written consent in accordance with Sections 228 and 229 of the General Corporation law of the State of Delaware, duly approved such name change and the aforesaid amendment to the Certificate of Incorporation of the Corporation to reflect such name change.

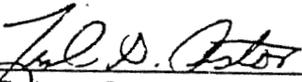
FOURTH: That the aforesaid amendment to the Certificate of Incorporation of the Corporation was duly adopted in accordance with the provisions of Sections 141(f), 228, 229 and 242 of the General Corporation Law of the State of Delaware.

FIFTH: That upon this Certificate of Amendment of Certificate of Incorporation becoming effective, the name of the Corporation shall be changed to "Powertel/Memphis, Inc."

IN WITNESS WHEREOF, InterCel Memphis MTA, Inc. has caused this Certificate of Amendment of Certificate of Incorporation to be signed by Allen E. Smith, its President, and attested by Fred G. Astor, Jr., its Secretary, on July 9, 1996.

By: 
Allen E. Smith
President

Attest:

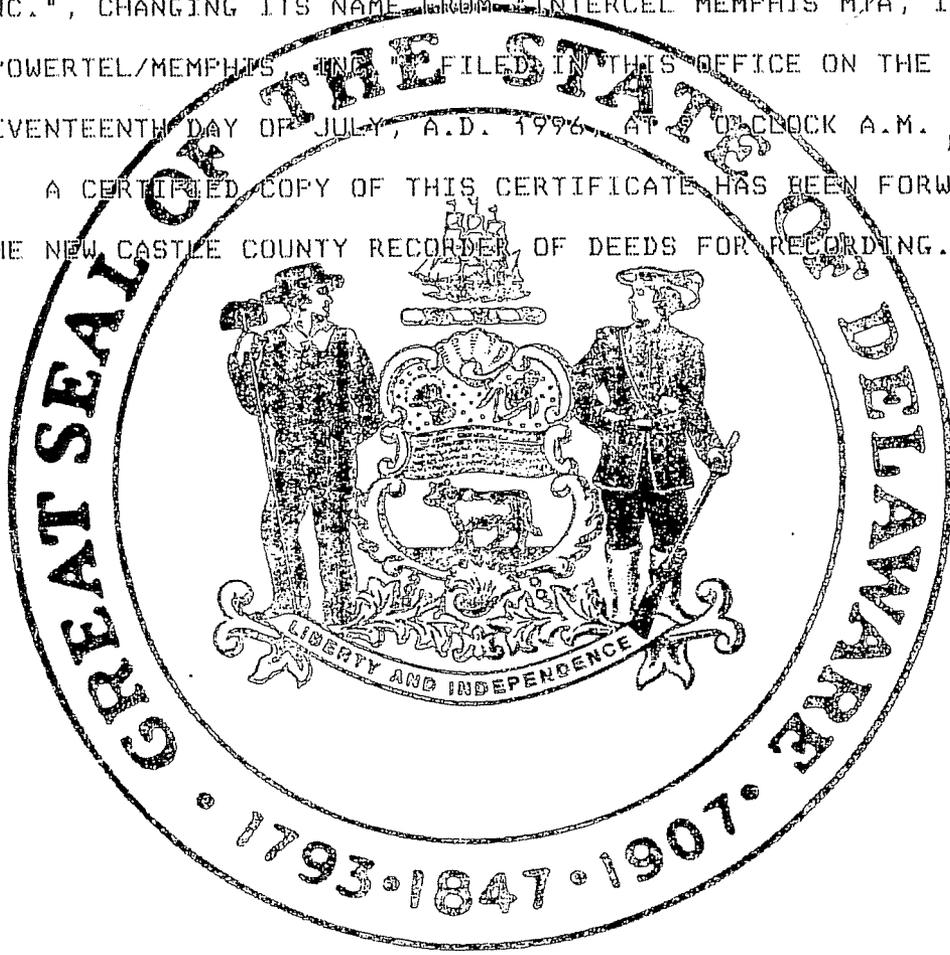

Fred G. Astor, Jr.
Secretary



State of Delaware
Office of the Secretary of State

I, EDWARD J. FREEL, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF AMENDMENT OF "INTERCEL MEMPHIS MTA, INC.", CHANGING ITS NAME FROM "INTERCEL MEMPHIS MTA, INC." TO "POWERTEL/MEMPHIS, INC." FILED IN THIS OFFICE ON THE SEVENTEENTH DAY OF JULY, A.D. 1996, AT 10:00 CLOCK A.M.

A CERTIFIED COPY OF THIS CERTIFICATE HAS BEEN FORWARDED TO THE NEW CASTLE COUNTY RECORDER OF DEEDS FOR RECORDING.



Edward J. Freel

Edward J. Freel, Secretary of State



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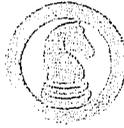
960207691

8030247

AUTHENTICATION:

DATE:

07-17-96



STOLL · KEENON · OGDEN
P L L C

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WWW.SKOFIRM.COM

KENDRICK R. RIGGS
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DIRECT FAX 502-627-8722
kendrick.riggs@skofirm.com

January 30, 2006

Elizabeth O'Donnell
Executive Director
Kentucky Public Service Commission
211 Sower Boulevard
Frankfort, Kentucky 40601

RECEIVED

JAN 31 2006

PUBLIC SERVICE
COMMISSION

RE: Changes to T-Mobile's Corporate Structure

Dear Ms. O'Donnell:

This letter is to advise you that T-Mobile has recently simplified its corporate structure by consolidating its Commercial Mobile Radio Service ("CMRS") operating entities and adopting regional naming conventions for them. We are providing this notice in an effort to keep you informed of relevant organizational changes in your jurisdiction. This notice letter requires no action by the Commission other than to update its records as discussed below.

Please be advised that Powertel Kentucky, Inc. (Utility No. 4202100) has been merged into Powertel/Memphis, Inc. and will now be operating under the existing name Powertel/Memphis, Inc. Additionally, VoiceStream Columbus, Inc. (Utility No. 4202200) has been merged into T-Mobile Central LLC, which is now functioning as a regional operating entity. All requisite legal documentation with respect to these mergers has been filed with, and approved by, the appropriate Secretary of State. (See attached – Secretary of State Certificate of Good Standing). Please update the Utility Information System to reflect the new registered names, Powertel/Memphis, Inc. and T-Mobile Central LLC.

Please note that this change will affect only the names of the entities to which you send your annual assessment pursuant to KRS 278.130. We request that you send the annual assessment forms for each entity to the following address: 12920 SE 38th St., Bellevue, WA 98006, Attn: Tax Department.

Elizabeth O'Donnell

January 30, 2006

Page 2

The location of our main corporate office remains 12920 SE 38th Street, Bellevue, WA 98006. However, our primary liaison with the Commission, Michele Thomas, has revised contact information. Ms. Thomas can now be reached at 4 Sylvan Way, Parsippany, NJ 07054.

We respectfully request that you update your records accordingly. All future Commission filing requirements will reflect these changes. If you should have any questions or require any additional information related to this matter, please do not hesitate to contact Ms. Thomas at (973) 981-1862.

Very truly yours,

A handwritten signature in black ink, appearing to read "Kendrick R. Riggs". The signature is fluid and cursive, with the first name being the most prominent.

Kendrick R. Riggs

KRR/ec

cc: William Feldman
Michele K. Thomas

Commonwealth of Kentucky

Trey Grayson
Secretary of State

Certificate of Authorization

I, Trey Grayson, Secretary of State of the Commonwealth of Kentucky, do hereby certify that according to the records in the Office of the Secretary of State,

POWERTEL/MEMPHIS, INC.

, a corporation organized under the laws of the state of Delaware, is authorized to transact business in the Commonwealth of Kentucky, and received the authority to transact business in Kentucky on February 23, 1996.

I further certify that all fees and penalties owed to the Secretary of State have been paid; that an application for certificate of withdrawal has not been filed; and that the most recent annual report required by KRS 271B.16-220 has been delivered to the Secretary of State.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my Official Seal at Frankfort, Kentucky, this 17th day of January, 2006.

Certificate Number: 25572

Jurisdiction: KY

Visit <http://apps.sos.ky.gov/business/obdb/certvalidate.aspx> to validate the authenticity of this certificate.





Trey Grayson
Secretary of State
Commonwealth of Kentucky
25572/0412295

Commonwealth of Kentucky
Trey Grayson
Secretary of State

Certificate of Authorization

I, Trey Grayson, Secretary of State of the Commonwealth of Kentucky, do hereby certify that according to the records in the Office of the Secretary of State,

T-MOBILE CENTRAL LLC

, a limited liability company organized under the laws of the state of Delaware, is authorized to transact business in the Commonwealth of Kentucky and received the authority to transact business in Kentucky on January 1, 2006.

I further certify that all fees and penalties owed to the Secretary of State have been paid; that an application for certificate of withdrawal has not been filed; and that the most recent annual report required by KRS 275.190 has been delivered to the Secretary of State.

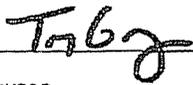
IN WITNESS WHEREOF, I have hereunto set my hand and affixed my Official Seal at Frankfort, Kentucky, this 17th day of January, 2006.

Certificate Number: 25571

Jurisdiction: KY

Visit <http://apps.sos.ky.gov/business/obdb/certvalidate.aspx> to validate the authenticity of this certificate.





Trey Grayson
Secretary of State
Commonwealth of Kentucky
25571/0627904

**Federal Communications Commission
Wireless Telecommunications Bureau**

Radio Station Authorization (Reference Copy Only)

This is not an official FCC license. It is a record of public information contained in the FCC's licensing database on the date that this reference copy was generated. In cases where FCC rules require the presentation, posting, or display of an FCC license, this document may not be used in place of an official FCC license.

Licensee: Powertel Memphis Licenses, Inc.

ATTN Dan Menser
Powertel Memphis Licenses, Inc.
12920 SE 38th Street
Bellevue, WA 98006

FCC Registration Number (FRN): 0001832807	
Call Sign: KNLH413	File Number:
Radio Service: CW - PCS Broadband	

Grant Date 04/28/1997	Effective Date 01/09/2006	Expiration Date 04/28/2007	Print Date 01/20/2006
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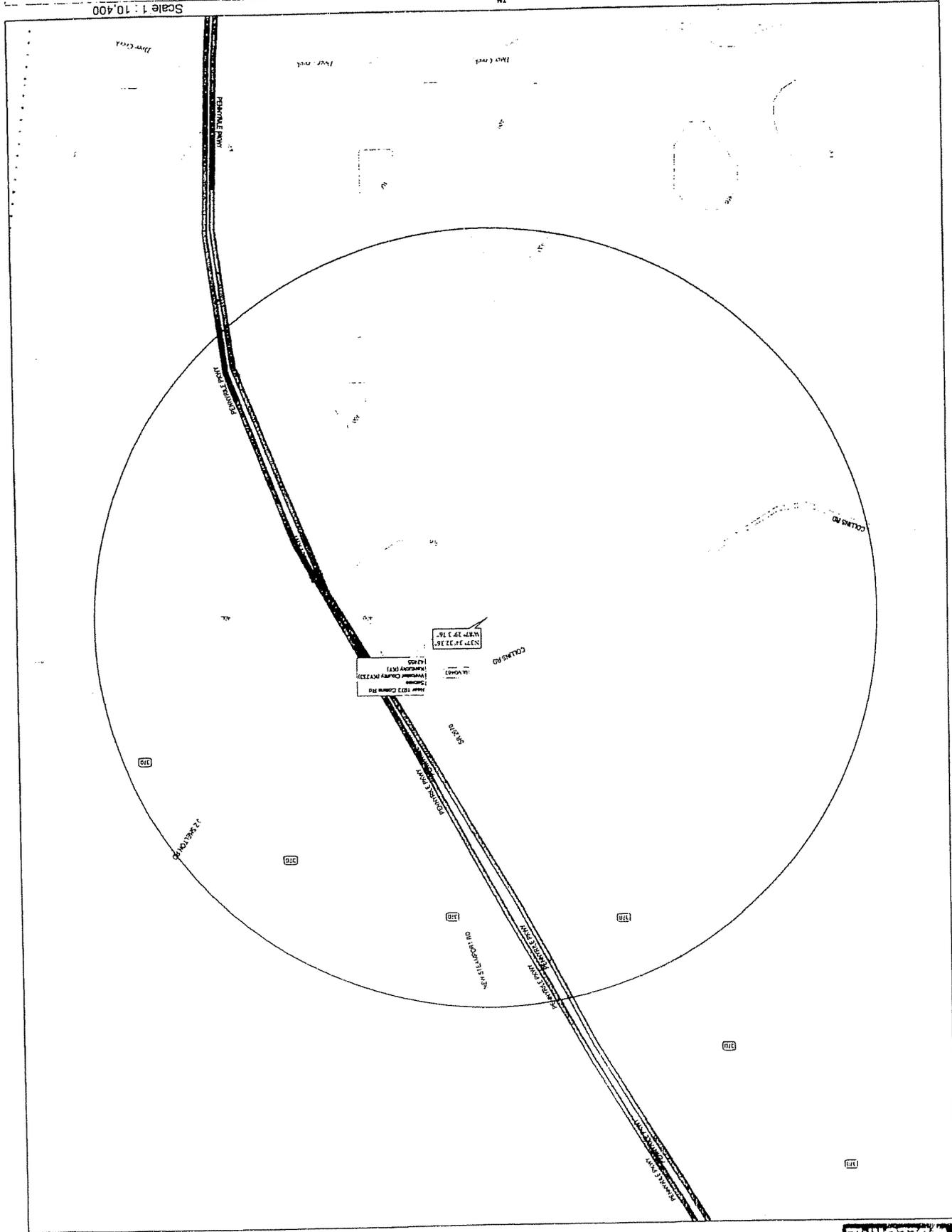
Market Number: BTA273	Channel Block: E	Sub-Market Designator: 0
Market Name: Madisonville, KY		

1st Build-out Date 04/28/2002	2nd Build-out Date	3rd Build-out Date	4th Build-out Date
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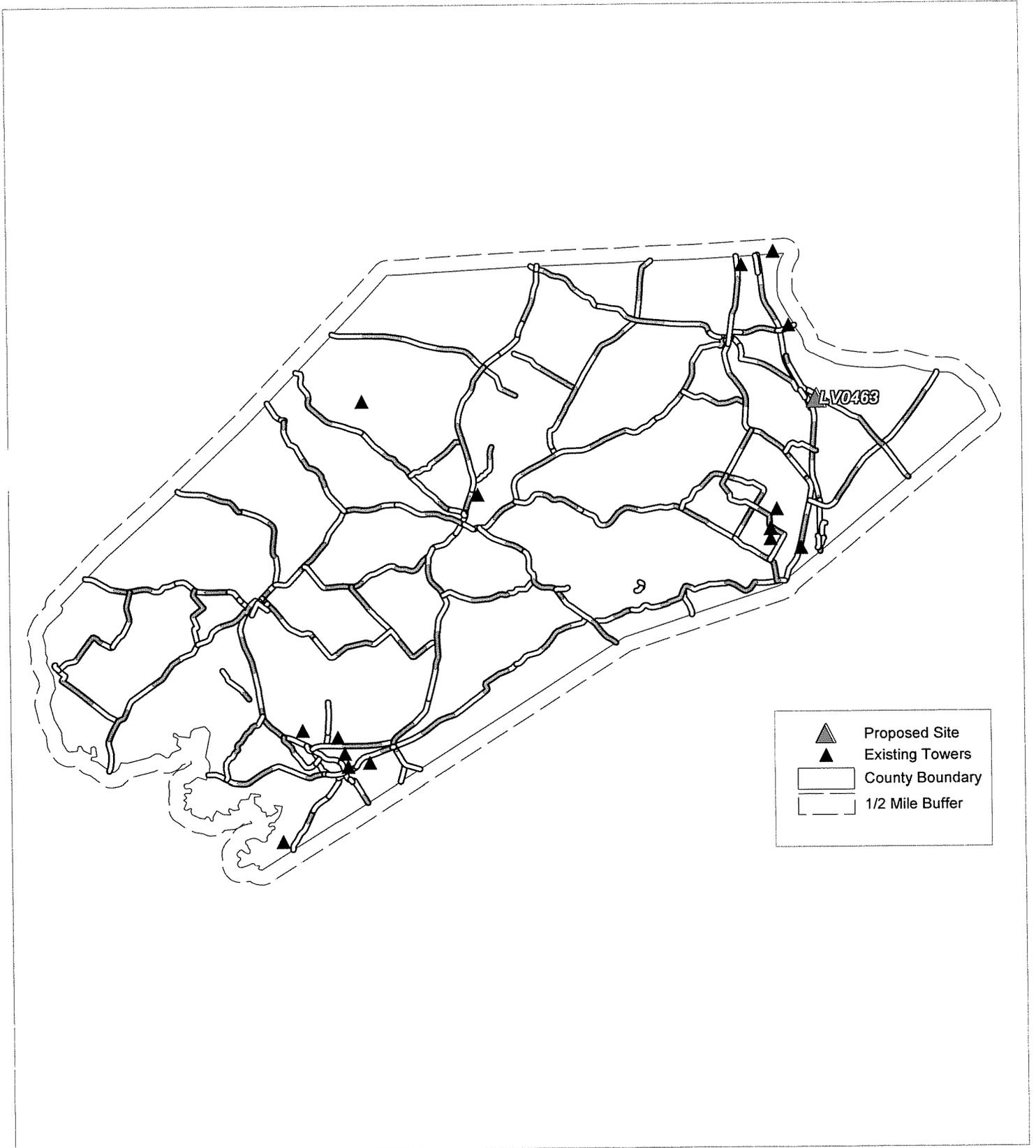
Special Conditions or Waivers/Conditions This authorization is subject to the condition that the remaining balance of the winning bid amount will be paid in accordance with Part 1 of the Commission's rules, 47 C.F.R. Part 1. This authorization is subject to the condition that, in the event that systems using the same frequencies as granted herein are authorized in an adjacent foreign territory (Canada/United States), future coordination of any base station transmitters within 72 km (45 miles) of the United States/Canada border shall be required to eliminate any harmful interference to operations in the adjacent foreign territory and to ensure continuance of equal access to the frequencies by both countries.

Conditions
Pursuant to Section 309(h) of the Communications Act of 1934, as amended, 47 U.S.C. Section 309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein. Neither the license nor the right granted thereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. See 47 U.S.C. Section 310(d). This license is subject in terms to the right of use or control conferred by Section 706 of the Communications Act of 1934, as amended. See 47 U.S.C. Section 706.

A graphical representation of the geographic area authorized to this call sign may be generated by selecting 'License Search' at the following web address: <http://www.fcc.gov/wtb/uls/>.



T-Mobile USA Site Map Webster County Kentucky



GEOTECHNICAL ENGINEERING REPORT
PROPOSED SEBREE COMMUNICATION TOWER
3702 STATE ROUTE 370
SEBREE, KENTUCKY

TERRACON PROJECT NO. 57057372G
December 28, 2005

Prepared For:

T-MOBILE
Nashville, Tennessee

Prepared by:

Terracon
Louisville, Kentucky

December 28, 2005

Terracon
Consulting Engineers & Scientists

T-MOBILE
3800 Ezell Road
Suite 815
Nashville, Tennessee 37211

Terracon Consultants, Inc.
4545 Bishop Lane, Suite 101
Louisville, Kentucky 40218
Phone 502.456.1256
Fax 502.456.1278
www.terracon.com

Attn: Ms. Stefanie Gibson

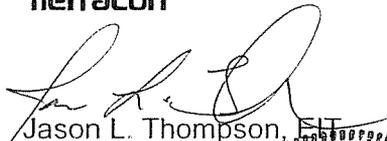
**Re: Geotechnical Engineering Report
Proposed Sebree Communication Tower
3702 State Route 370
Sebree, Kentucky
Terracon Project No. 57057372G**

Dear Ms. Gibson:

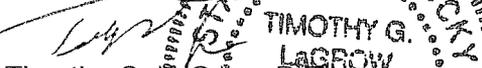
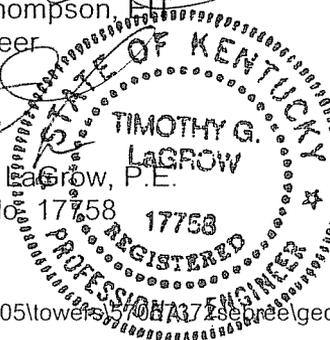
We are submitting, herewith, the results of our subsurface exploration for the referenced project. The purpose of this exploration was to obtain information on subsurface conditions at the proposed project site and, based on this information, to provide recommendations regarding the design and construction of foundations for the proposed tower.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning this report, or if we may be of further service to you in any way, please feel free to contact us.

Sincerely,
Terracon


Jason L. Thompson, ~~PE~~
Staff Engineer


Erich J. Hoehler
Project Engineer


Timothy G. Lagrow, P.E.
Kentucky No. 17758


n:\projects\2005\towers\57057372\Sebree\geo\geo57057372G.doc

Attachments: Geotechnical Engineering Report

Copies: (9) Addressee

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APPENDIX

 Boring Location Plan

 Boring Log

 General Notes

 General Notes – Description of Rock Properties

 Unified Soil Classification System

GEOTECHNICAL ENGINEERING REPORT

PROPOSED SEBREE COMMUNICATION TOWER 3702 STATE ROUTE 370 SEBREE, KENTUCKY TERRACON PROJECT NO. 57057372G December 28, 2005

1.0 INTRODUCTION

The purpose of this report is to describe the subsurface conditions encountered in the boring, analyze and evaluate the test data, and provide recommendations regarding the design and construction of foundations and earthwork for the proposed tower. One boring extending to a depth of about 34 feet below the existing ground surface was drilled at the site. An individual boring log and a boring location plan are included with this report.

2.0 PROJECT DESCRIPTION

Terracon understands the proposed project will consist of the construction of a 275-foot self supporting tower. Exact tower loads are not available, but based on our past experience are anticipated to be as follows:

Vertical Load:	600 kips
Horizontal Shear:	85 kips
Uplift:	550 kips

A small, lightly loaded equipment building will also be constructed. Wall and floor loads for this building are not anticipated to exceed 1 kip per linear foot and 100 pounds per square foot, respectively.

At the time of our exploration the site consisted of a grass-covered area behind an existing mobile home located on the south side of State Road 370. Based on the proposed tower construction and the gently sloping site, cuts and/or fills of 2 to 3 feet may be required to reach the planned site grades.

3.0 EXPLORATION PROCEDURES

3.1 Field Exploration

The subsurface exploration consisted of drilling and sampling one boring at the site to a depth of about 34 feet below existing grade. The boring location and depth were selected by T-Mobile. The actual boring location was determined by a subcontract driller, who paced distances in the field based on existing property features. Right angles for the boring location measurements were estimated. The ground surface elevation was interpolated from the contours on the provided drawings. The location and elevation of the boring should

be considered accurate only to the degree implied by the means and methods used to define them.

The boring was drilled with an ATV-mounted rotary drill rig using hollow stem augers to advance the borehole. Representative soil samples were obtained by the split-barrel sampling procedure in general accordance with the appropriate ASTM standard. In the split-barrel sampling procedure, the number of blows required to advance a standard 2-inch O.D. split-barrel sampler the last 12 inches of the typical total 18-inch penetration by means of a 140-pound hammer with a free fall of 30 inches, is the standard penetration resistance (SPT) value (N-Value). This value is used to estimate the in-situ relative density of cohesionless soils and the consistency of cohesive soils. The sampling depths, penetration distance, and standard penetration resistance values are shown on the boring log. The samples were sealed and delivered to the laboratory for testing and classification.

Auger refusal was encountered at a depth of about 24 feet below the existing ground surface. The boring was extended into the refusal materials using a diamond bit attached to the outer barrel of a double core barrel. The inner barrel collected the cored material as the outer barrel was rotated at high speeds to cut the rock. The barrel was retrieved to the surface upon completion of each drill run. Once the core samples were retrieved, they were placed in a box and logged. The rock was later classified by an engineer and the "percent recovery" and rock quality designation (RQD) were determined.

Classification and descriptions of rock core samples are in accordance with the enclosed General Notes, and are based on visual and tactile observations. Petrographic analysis of thin sections may indicate other rock types. Percent recovery and rock quality designation (RQD) were calculated for these samples and are noted at their depths of occurrence on the boring log.

The "percent recovery" is the ratio of the sample length retrieved to the drilled length, expressed as a percent. An indication of the actual in-situ rock quality is provided by calculating the sample's RQD. The RQD is the percentage of the length of broken cores retrieved which have core segments at least 4 inches in length compared to each drilled length. The RQD is related to rock soundness and quality as illustrated below:

Table 1 – Rock Quality Designation (RQD)

Relation of RQD and In-situ Rock Quality	
RQD (%)	Rock Quality
90 - 100	Excellent
75 - 90	Good
50 - 75	Fair
25 - 50	Poor

0 -25	Very Poor
-------	-----------

A field log of the boring was prepared by a subcontract driller. This log included visual classifications of the materials encountered during drilling as well as the driller's interpretation of the subsurface conditions between samples. The final boring log included with this report represents an interpretation of the driller's field log and a visual classification of the soil samples made by the geotechnical engineer.

3.2 Laboratory Testing

The samples were classified in the laboratory based on visual observation, texture and plasticity. The descriptions of the soils indicated on the boring log are in accordance with the enclosed General Notes and the Unified Soil Classification System. Estimated group symbols according to the Unified Soil Classification System are given on the boring log. A brief description of this classification system is attached to this report.

The laboratory testing program consisted of performing water content tests and an Atterberg Limits test on representative soil samples. An unconfined compressive strength test was performed on a sample of the refusal material. Information from these tests was used in conjunction with field penetration test data to evaluate soil/rock strength in-situ, volume change potential, and soil classification. Results of these tests are provided on the boring log.

4.0 EXPLORATORY FINDINGS

4.1 Subsurface Conditions

Conditions encountered at the boring location are indicated on the boring log. Stratification boundaries on the boring log represent the approximate location of changes in soil types and the transition between materials may be gradual. Water levels shown on the boring log represent the conditions only at the time of our exploration. Based on the results of the boring, subsurface conditions on the project site can be generalized as follows.

Underlying approximately 4 inches of topsoil, our boring encountered lean clay (CL) and silty clay (CL/ML) to a depth of about 13½ feet below existing grade. Weathered Sandstone and shale were encountered below the clay to a refusal depth of about 24 feet. The clays exhibited a stiff to very stiff consistency based on SPT N-Values of 9 to 15 blows per foot.

Below a depth of about 24 feet, rock coring techniques were used to advance the borehole. The core samples recovered consisted of moderate to slightly weathered, closely jointed, dark gray shale. The bedrock at the site appears to be relatively continuous based on a core recovery of 98 percent. The quality of the rock is rated fair based on an RQD value of 59

percent. Considering the height of the tower and the quality of the bedrock, coring operations were terminated at a depth of 34 feet below existing grade.

4.2 Site Geology

A review of the Geologic Map of the Beech Grove Quadrangle, Western Kentucky published by the United States Geological Survey (USGS), indicates that the site is underlain by Loess Deposits and the Sturgis Formation. The Loess is light yellowish brown silt that is partly sandy and clayey. The Loess can be up to 20 feet thick. The Sturgis Formation is made up of shale, sandstone, coal and limestone. The shale of the formation is light to dark gray and commonly interbedded with sandstone. This formation can be over 1700 feet thick.

4.3 Groundwater Conditions

No groundwater was encountered during the auger drilling portion of the borehole. Water was used to advance the borehole during rock coring operations. The introduction of water into the borehole precluded obtaining accurate groundwater level readings at the time of drilling operations. Long term observation of the groundwater level in monitoring wells, sealed from the influence of surface water, would be required to obtain accurate groundwater levels on the site.

It should be recognized that fluctuations of the groundwater table may occur due to seasonal variations in the amount of rainfall, runoff and other factors not evident at the time the boring was performed. Therefore, groundwater levels during construction or at other times in the life of the structure may be higher or lower than the levels indicated on the boring log. The possibility of groundwater level fluctuations should be considered when developing the design and construction plans for the project.

5.0 ENGINEERING RECOMMENDATIONS

Based on the encountered subsurface conditions, the proposed tower can be either founded on drilled piers or on a mat foundation. The equipment building may be supported on shallow spread footings. Design recommendations for the tower drilled piers and mat foundations as well as shallow footings for the equipment building are presented in the following paragraphs.

5.1 Tower Foundation

Based on the results of the boring, the following tower foundation design parameters have been developed:

Table 2 - Drilled Pier Foundation Design Parameters

Depth * (feet)	Description **	Allowable Skin Friction (psf)	Allowable End Bearing Pressure (psf)	Allowable Passive Pressure (psf)	Internal Angle of Friction (Degree)	Cohesion (psf)	Lateral Subgrade Modulus (pci)	Strain, ϵ_{50} (in/in)
0 – 3	Topsoil and Lean Clay	Ignore	Ignore	Ignore	-	-	Ignore	Ignore
3 – 14	Lean to Silty Clay	400	3,000	1,250	0	1,250	100	0.008
14 – 24	Weathered Sandstone and Shale	650	9,000	4,000	0	4,000	300	0.004
24 – 34	Shale	4,000***	20,000	8,000***	0	50,000***	3,000	0.00001

* Pier inspection is recommended to adjust pier length if variable soil/rock conditions are encountered.

** A total unit weight of 120 and 140 pcf can be estimated for the clay/weathered rock and shale, respectively.

***The pier should be embedded a minimum of 3 feet into the shale to mobilize these higher rock strength parameters. Furthermore, it is assumed the rock socket will be extended using coring techniques rather than blasting/shooting.

The above indicated cohesion, friction angle, lateral subgrade modulus and strain values have no factors of safety, and the allowable skin friction and the passive resistances have factors of safety of 2. The cohesion, internal friction angle, lateral subgrade modulus and strain values given in the above table are based on the boring, published correlation values and Terracon's past experience with similar soil/rock types. These values should, therefore, be considered approximate. The allowable end bearing pressure provided in the table has an approximate factor of safety of at least 3. Total settlement of drilled piers designed using the above parameters is not anticipated to exceed 1/2-inch.

The upper 3 feet of topsoil and lean clay should be ignored due to the potential affects of frost action and construction disturbance. To avoid a reduction in lateral and uplift resistance caused by variable subsurface conditions and or bedrock depths, the drawings should instruct the contractor to notify the engineer if subsurface conditions significantly different than encountered in the boring are disclosed during drilled pier installation. Under these circumstances, it may be necessary to adjust the overall length of the pier. To facilitate these adjustments and assure that the pier is embedded in suitable materials, it is recommended that a Terracon representative observe the drilled pier excavation.

If a bedrock socket is required, it is recommended that a minimum pier length and minimum competent rock socket length be stated on the design drawings. Competent rock was encountered in the boring below a depth of about 24 feet, but could vary between tower legs or if the tower is moved from the location of the boring. If the tower center is moved from the planned location, Terracon should be notified to review the recommendations and determine whether an additional boring is required. To facilitate pier length adjustments that may be necessary because of variable rock conditions, it is recommended that a Terracon representative observe the drilled pier excavation.

Although our boring was able to penetrate the highly weathered shale and sandstone, there is a possibility that larger diameter drilled pier equipment will refuse on this material, or at higher elevations than shown in our boring. The contractor should recognize the hardness of the material and be prepared to use rock teeth or other means to extend through these layers.

A drilled pier foundation should be designed with a minimum shaft diameter of 30 inches to facilitate clean out and possible dewatering of the pier excavation. Temporary casing may be required during the pier excavation in order to control possible groundwater seepage and support the sides of the excavation in non-cohesive soil zones. Care should be taken so that the sides and bottom of the excavations are not disturbed during construction. The bottom of the shaft should be free of loose soil or debris prior to reinforcing steel and concrete placement.

A concrete slump of at least 6 inches is recommended to facilitate temporary casing removal. It should be possible to remove the casing from a pier excavation during concrete placement provided that the concrete inside the casing is maintained at a sufficient level to resist any earth and hydrostatic pressures outside the casing during the entire casing removal procedure.

If desired, a mat foundation can be used to support the proposed tower. The mat foundation can be designed using the following natural soil/engineered fill parameters. These parameters are based on the findings of the boring, a review of published correlation values and Terracon's experience with similar soil conditions. These design parameters also assume that the base of the mat foundation will rest on natural soils or well-graded crushed stone that is compacted and tested on a full time basis.

Table 3 - Mat Foundation Design Parameters

Depth (feet)	Description	Allowable Contact Bearing Pressure (psf)	Allowable Passive Pressure (psf)	Coefficient of Friction, $\tan \delta$	Vertical Modulus of Subgrade Reaction (pci)
0 - 2	Topsoil and Lean Clays	Ignore	Ignore	-	
≥ 2	Lean Clay or Crushed Stone Fill	2,500	Ignore	0.35	125

To assure that soft soils are not left under the mat foundation, it is recommended that a geotechnical engineer observe the foundation subgrade prior to concrete placement. Provided the above recommendations are followed, total mat foundation settlements are not anticipated to exceed about 1 inch. Differential settlement should not exceed 50 percent of the total settlement.

5.2 Equipment Building Foundations

The proposed equipment shed may be supported on shallow footings bearing on stiff natural soils. The equipment building foundations should be dimensioned using a net allowable soil bearing pressure of 2,000 pounds per square foot (psf). In using net allowable soil pressures for footing dimensioning, the weight of the footings and backfill over the footings need not be considered. Furthermore, the footings should be at least 12 inches wide and a minimum of 2.0 feet square.

The geotechnical engineer or a qualified representative should observe the foundation excavations to verify that the bearing materials are suitable for support of the proposed loads. If, at the time of such observation, any soft soils are encountered at the design foundation elevation, the excavations should be extended downward so that the footings rest on stiff soils. If it is inconvenient to lower the footings, the proposed footing elevations may be re-established by backfilling after the undesirable material has been removed.

The recommended soil bearing value should be considered an upper limit, and any value less than that listed above would be acceptable for the foundation system. Using the value given, total settlement would be about 1 inch or less with differential settlements being less than 75 percent of total settlement. Footings should be placed at a depth of 2.0 feet, or greater, below finished exterior grade for protection against frost damage.

5.3 Parking and Drive Areas

The drive that accesses the site will be surfaced with crushed stone. Parking and drive areas that are surfaced with crushed stone should have a minimum thickness of 6 inches and be properly placed and compacted as outlined herein. The crushed stone should meet Kentucky Transportation Cabinet specifications and applicable local codes.

A paved section consisting only of crushed graded aggregate base course should be considered a high maintenance section. Regular care and maintenance is considered essential to the longevity and use of the section. Site grades should be maintained in such a manner as to allow for adequate surface runoff. Any potholes, depressions or excessive rutting that may develop should be repaired as soon as possible to reduce the possibility of degrading the soil subgrade.

5.4 Site Preparation

Site preparation should begin with the removal of any topsoil, loose, soft or otherwise unsuitable materials from the construction area. The geotechnical engineer should evaluate the actual stripping depth, along with any soft soils that require undercutting at the time of construction.

Any fill and backfill placed on the site should consist of approved materials that are free of organic matter and debris. Suitable fill material should consist of well graded crushed stone below the tower foundation and well graded crushed stone and/or low-plasticity cohesive soil elsewhere. Low-plasticity cohesive soil should have a liquid limit of less than 45 percent and a plasticity index of less than 25 percent. Based on our limited testing to date, the upper 5 feet of lean clay soils are considered suitable for re-use as fill. If the silty clays encountered below the lean clay are used as structural fill, stringent moisture control measures will be required. It is recommended that during construction these soils and any off-site soils should be further tested and evaluated prior to use as fill. Fill should not contain frozen material and it should not be placed on a frozen subgrade.

The fill should be placed and compacted in lifts of 9 inches or less in loose thickness. Fill placed below structures or used to provide lateral resistance should be compacted to at least 98 percent of the material's maximum standard Proctor dry density (ASTM D-698). Fill should be placed, compacted, and maintained at moisture contents within minus 2 to plus 2 percent of the optimum value determined by the standard Proctor test.

The geotechnical engineer should be retained to monitor fill placement on the project and to perform field density tests as each lift of fill is placed in order to evaluate compliance with the design requirements. Standard Proctor and Atterberg limits tests should be performed on the representative samples of fill materials before their use on the site.

6.0 GENERAL COMMENTS

Terracon should be retained to review the final design plans and specifications so comments can be made regarding interpretation and implementation of our geotechnical recommendations in the design and specifications. Terracon also should be retained to provide testing and observation during excavation, grading, foundation and construction phases of the project.

The analysis and recommendations presented in this report are based upon the data obtained from the boring performed at the indicated location and from other information discussed in this report. This report does not reflect variations that may occur across the site, between the tower legs or due to the modifying effects of weather. The nature and extent of such variations may not become evident until during or after construction. If variations appear, we should be immediately notified so that further evaluation and supplemental recommendations can be provided.

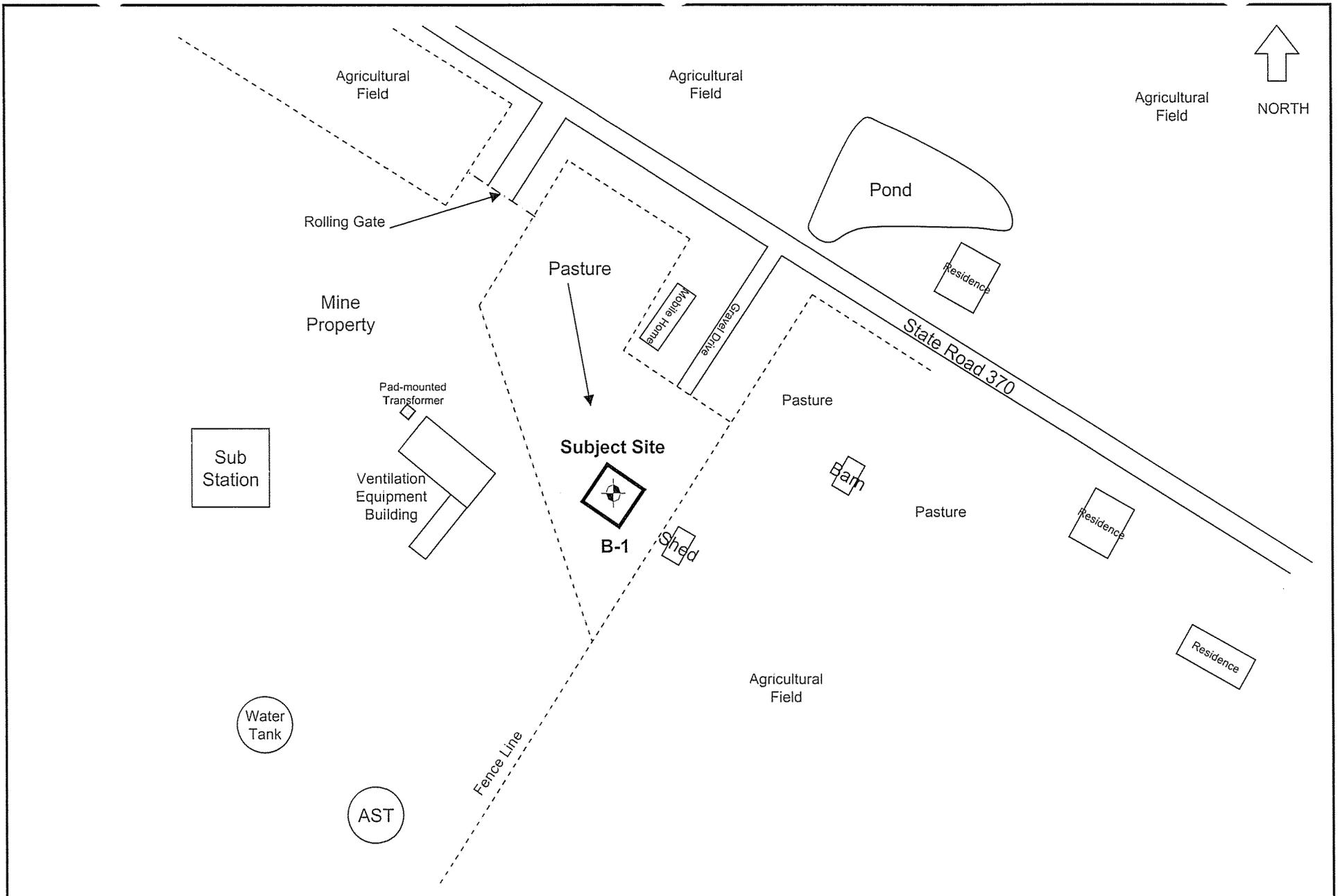
The scope of services for this project does not include either specifically or by implication any environmental or biological (e.g., mold, fungi, bacteria) assessment of the site or identification or prevention of pollutants, hazardous materials or conditions. If the owner is concerned about the potential for such contamination or pollution, other studies should be undertaken.

**Sebree Communication Tower
Sebree, Kentucky
Terracon Project No.: 57057372G
December 28, 2005**

Terracon

This report has been prepared for the exclusive use of our client for specific application to the project discussed and has been prepared in accordance with generally accepted geotechnical engineering practices. No warranties, either express or implied, are intended or made. Site safety, excavation support, and dewatering requirements are the responsibility of others. In the event that changes in the nature, design, or location of the project as outlined in this report are planned, the conclusions and recommendations contained in this report shall not be considered valid unless Terracon reviews the changes and either verifies or modifies the conclusions of this report in writing.

APPENDIX



BORING LOCATION DIAGRAM

SCALE: NTS



T•MOBILE
 Sebree Site
 Sebree, Kentucky
 PROJECT NO. 57057372G

LOG OF BORING NO. B-1

CLIENT
T-MOBILE

SITE
SEBREE, KENTUCKY

PROJECT
SEBREE COMMUNICATION TOWER

GRAPHIC LOG	DESCRIPTION	DEPTH, ft.	USCS SYMBOL	SAMPLES				TESTS		
				NUMBER	TYPE	RECOVERY, in.	SPT - N BLOWS / ft.	WATER CONTENT, %	DRY UNIT WT pcf	UNCONFINED STRENGTH, psf
	Approx. Surface Elev.: 400 ft									
0.3	TOPSOIL LEAN CLAY, brown and gray, very stiff to stiff	399.5	CL	1	SS	18	15	19		
5	SILTY CLAY, brown and gray, stiff with sand below 8.5 feet	395	CL ML	2 3	SS SS	18 18	11 10	25		LL=35 PL=22 PI=13
13.5	WEATHERED SANDSTONE, soft, organish brown	386.5	SP	5	SS	5	50/5			
15	WEATHERED SHALE, with interbedded sandstone, soft to moderately hard, brown and gray to dark gray	385		6	SS	10	50/5			
24	Auger refusal at 24 feet, began coring SHALE, hard, moderate to slight weathering, closely jointed, dark gray	376		7	DB	98%	RQD 59%		2000 psi	
34	BORING TERMINATED AT 34 FEET	366								

The stratification lines represent the approximate boundary lines between soil and rock types: in-situ, the transition may be gradual.

WATER LEVEL OBSERVATIONS, ft		
WL	▽	▽
WL	▽	▽
WL	Dry upon auger completion	



BORING STARTED		12-13-05	
BORING COMPLETED		12-13-05	
RIG	ACKER	FOREMAN	TA
APPROVED	JLT	JOB #	57057372G

BOREHOLE 99 5107372G.GPJ TERRACON.GDT 12/29/05

GENERAL NOTES

DRILLING & SAMPLING SYMBOLS:

SS:	Split Spoon - 1- ³ / ₈ " I.D., 2" O.D., unless otherwise noted	HS:	Hollow Stem Auger
ST:	Thin-Walled Tube - 2" O.D., unless otherwise noted	PA:	Power Auger
RS:	Ring Sampler - 2.42" I.D., 3" O.D., unless otherwise noted	HA:	Hand Auger
DB:	Diamond Bit Coring - 4", N, B	RB:	Rock Bit
BS:	Bulk Sample or Auger Sample	WB:	Wash Boring or Mud Rotary

The number of blows required to advance a standard 2-inch O.D. split-spoon sampler (SS) the last 12 inches of the total 18-inch penetration with a 140-pound hammer falling 30 inches is considered the "Standard Penetration" or "N-value".

WATER LEVEL MEASUREMENT SYMBOLS:

WL:	Water Level	WS:	While Sampling	N/E:	Not Encountered
WCI:	Wet Cave in	WD:	While Drilling		
DCI:	Dry Cave in	BCR:	Before Casing Removal		
AB:	After Boring	ACR:	After Casing Removal		

Water levels indicated on the boring logs are the levels measured in the borings at the times indicated. Groundwater levels at other times and other locations across the site could vary. In pervious soils, the indicated levels may reflect the location of groundwater. In low permeability soils, the accurate determination of groundwater levels may not be possible with only short-term observations.

DESCRIPTIVE SOIL CLASSIFICATION: Soil classification is based on the Unified Classification System. Coarse Grained Soils have more than 50% of their dry weight retained on a #200 sieve; their principal descriptors are: boulders, cobbles, gravel or sand. Fine Grained Soils have less than 50% of their dry weight retained on a #200 sieve; they are principally described as clays if they are plastic, and silts if they are slightly plastic or non-plastic. Major constituents may be added as modifiers and minor constituents may be added according to the relative proportions based on grain size. In addition to gradation, coarse-grained soils are defined on the basis of their in-place relative density and fine-grained soils on the basis of their consistency.

CONSISTENCY OF FINE-GRAINED SOILS

<u>Unconfined Compressive Strength, Qu, psf</u>	<u>Standard Penetration or N-value (SS) Blows/Ft.</u>	<u>Consistency</u>
< 500	<2	Very Soft
500 – 1,000	2-3	Soft
1,001 – 2,000	4-7	Medium Stiff
2,001 – 4,000	8-15	Stiff
4,001 – 8,000	16-30	Very Stiff
8,000+	30+	Hard

RELATIVE DENSITY OF COARSE-GRAINED SOILS

<u>Standard Penetration or N-value (SS) Blows/Ft.</u>	<u>Relative Density</u>
0 – 3	Very Loose
4 – 9	Loose
10 – 29	Medium Dense
30 – 49	Dense
50+	Very Dense

RELATIVE PROPORTIONS OF SAND AND GRAVEL

<u>Descriptive Term(s) of other constituents</u>	<u>Percent of Dry Weight</u>
Trace	< 15
With	15 – 29
Modifier	> 30

GRAIN SIZE TERMINOLOGY

<u>Major Component of Sample</u>	<u>Particle Size</u>
Boulders	Over 12 in. (300mm)
Cobbles	12 in. to 3 in. (300mm to 75 mm)
Gravel	3 in. to #4 sieve (75mm to 4.75 mm)
Sand	#4 to #200 sieve (4.75mm to 0.075mm)
Silt or Clay	Passing #200 Sieve (0.075mm)

RELATIVE PROPORTIONS OF FINES

<u>Descriptive Term(s) of other constituents</u>	<u>Percent of Dry Weight</u>
Trace	< 5
With	5 – 12
Modifiers	> 12

PLASTICITY DESCRIPTION

<u>Term</u>	<u>Plasticity Index</u>
Non-plastic	0
Low	1-10
Medium	11-30
High	30+

GENERAL NOTES

Description of Rock Properties

WEATHERING

Fresh	Rock fresh, crystals bright, few joints may show slight staining. Rock rings under hammer if crystalline.
Very slight	Rock generally fresh, joints stained, some joints may show thin clay coatings, crystals in broken face show bright. Rock rings under hammer if crystalline.
Slight	Rock generally fresh, joints stained, and discoloration extends into rock up to 1 in. Joints may contain clay. In granitoid rocks some occasional feldspar crystals are dull and discolored. Crystalline rocks ring under hammer.
Moderate	Significant portions of rock show discoloration and weathering effects. In granitoid rocks, most feldspars are dull and discolored; some show clayey. Rock has dull sound under hammer and shows significant loss of strength as compared with fresh rock.
Moderately severe	All rock except quartz discolored or stained. In granitoid rocks, all feldspars dull and discolored and majority show kaolinization. Rock shows severe loss of strength and can be excavated with geologist's pick.
Severe	All rock except quartz discolored or stained. Rock "fabric" clear and evident, but reduced in strength to strong soil. In granitoid rocks, all feldspars kaolinized to some extent. Some fragments of strong rock usually left.
Very severe	All rock except quartz discolored or stained. Rock "fabric" discernible, but mass effectively reduced to "soil" with only fragments of strong rock remaining.
Complete	Rock reduced to "soil". Rock "fabric" not discernible or discernible only in small, scattered locations. Quartz may be present as dikes or stringers.

HARDNESS (for engineering description of rock – not to be confused with Moh's scale for minerals)

Very hard	Cannot be scratched with knife or sharp pick. Breaking of hand specimens requires several hard blows of geologist's pick.
Hard	Can be scratched with knife or pick only with difficulty. Hard blow of hammer required to detach hand specimen.
Moderately hard	Can be scratched with knife or pick. Gouges or grooves to ¼ in. deep can be excavated by hard blow of point of a geologist's pick. Hand specimens can be detached by moderate blow.
Medium	Can be grooved or gouged 1/16 in. deep by firm pressure on knife or pick point. Can be excavated in small chips to pieces about 1-in. maximum size by hard blows of the point of a geologist's pick.
Soft	Can be gouged or grooved readily with knife or pick point. Can be excavated in chips to pieces several inches in size by moderate blows of a pick point. Small thin pieces can be broken by finger pressure.
Very soft	Can be carved with knife. Can be excavated readily with point of pick. Pieces 1-in. or more in thickness can be broken with finger pressure. Can be scratched readily by fingernail.

Joint, Bedding and Foliation Spacing in Rock^a

Spacing	Joints	Bedding/Foliation	
Less than 2 in.	Very close	Very thin	
2 in. – 1 ft.	Close	Thin	
1 ft. – 3 ft.	Moderately close	Medium	
3 ft. – 10 ft.	Wide	Thick	
More than 10 ft.	Very wide	Very thick	
Rock Quality Designator (RQD) ^b		Joint Openness Descriptors	
RQD, as a percentage	Diagnostic description	Openness	Descriptor
Exceeding 90	Excellent	No Visible Separation	Tight
90 – 75	Good	Less than 1/32 in.	Slightly Open
75 – 50	Fair	1/32 to 1/8 in.	Moderately Open
50 – 25	Poor	1/8 to 3/8 in.	Open
Less than 25	Very poor	3/8 in. to 0.1 ft.	Moderately Wide
		Greater than 0.1 ft.	Wide

- a. Spacing refers to the distance normal to the planes, of the described feature, which are parallel to each other or nearly so.
 b. RQD (given as a percentage) = length of core in pieces 4 in. and longer/length of run.

References: American Society of Civil Engineers. Manuals and Reports on Engineering Practice - No. 56. Subsurface Investigation for Design and Construction of Foundations of Buildings. New York: American Society of Civil Engineers, 1976.
 U.S. Department of the Interior, Bureau of Reclamation, Engineering Geology Field Manual.

UNIFIED SOIL CLASSIFICATION SYSTEM

Criteria for Assigning Group Symbols and Group Names Using Laboratory Tests^A

				Soil Classification	
				Group Symbol	Group Name ^B
Coarse Grained Soils More than 50% retained on No. 200 sieve	Gravels More than 50% of coarse fraction retained on No. 4 sieve	Clean Gravels Less than 5% fines ^C	$Cu \geq 4$ and $1 \leq Cc \leq 3^E$	GW	Well-graded gravel ^F
			$Cu < 4$ and/or $1 > Cc > 3^E$	GP	Poorly graded gravel ^F
		Gravels with Fines More than 12% fines ^C	Fines classify as ML or MH Fines classify as CL or CH	GM GC	Silty gravel ^{F,G,H} Clayey gravel ^{F,G,H}
	Sands 50% or more of coarse fraction passes No. 4 sieve	Clean Sands Less than 5% fines ^D	$Cu \geq 6$ and $1 \leq Cc \leq 3^E$ $Cu < 6$ and/or $1 > Cc > 3^E$	SW SP	Well-graded sand ^I Poorly graded sand ^I
		Sands with Fines More than 12% fines ^D	Fines classify as ML or MH	SM	Silty sand ^{G,H,I}
			Fines Classify as CL or CH	SC	Clayey sand ^{G,H,I}
Fine-Grained Soils 50% or more passes the No. 200 sieve	Silt and Clays Liquid limit less than 50	inorganic	$PI > 7$ and plots on or above "A" line ^J	CL	Lean clay ^{K,L,M}
			$PI < 4$ or plots below "A" line ^J	ML	Silt ^{K,L,M}
		organic	Liquid limit - oven dried < 0.75	OL	Organic clay ^{K,L,M,N}
			Liquid limit - not dried	OL	Organic silt ^{K,L,M,O}
	Silt and Clays Liquid limit 50 or more	inorganic	PI plots on or above "A" line	CH	Fat clay ^{K,L,M}
			PI plots below "A" line	MH	Elastic Silt ^{K,L,M}
		organic	Liquid limit - oven dried < 0.75	OH	Organic clay ^{K,L,M,P}
			Liquid limit - not dried	OH	Organic silt ^{K,L,M,O}
Highly organic soils	Primarily organic matter, dark in color, and organic odor			PT	Peat

^ABased on the material passing the 3-in. (75-mm) sieve

^BIf field sample contained cobbles or boulders, or both, add "with cobbles or boulders, or both" to group name.

^CGravels with 5 to 12% fines require dual symbols: GW-GM well-graded gravel with silt, GW-GC well-graded gravel with clay, GP-GM poorly graded gravel with silt, GP-GC poorly graded gravel with clay.

^DSands with 5 to 12% fines require dual symbols: SW-SM well-graded sand with silt, SW-SC well-graded sand with clay, SP-SM poorly graded sand with silt, SP-SC poorly graded sand with clay

$$^E C_u = D_{60}/D_{10} \quad C_c = \frac{(D_{30})^2}{D_{10} \times D_{60}}$$

^FIf soil contains $\geq 15\%$ sand, add "with sand" to group name.

^GIf fines classify as CL-ML, use dual symbol GC-GM, or SC-SM.

^HIf fines are organic, add "with organic fines" to group name.

^IIf soil contains $\geq 15\%$ gravel, add "with gravel" to group name.

^JIf Atterberg limits plot in shaded area, soil is a CL-ML, silty clay.

^KIf soil contains 15 to 29% plus No. 200, add "with sand" or "with gravel," whichever is predominant.

^LIf soil contains $\geq 30\%$ plus No. 200 predominantly sand, add "sandy" to group name.

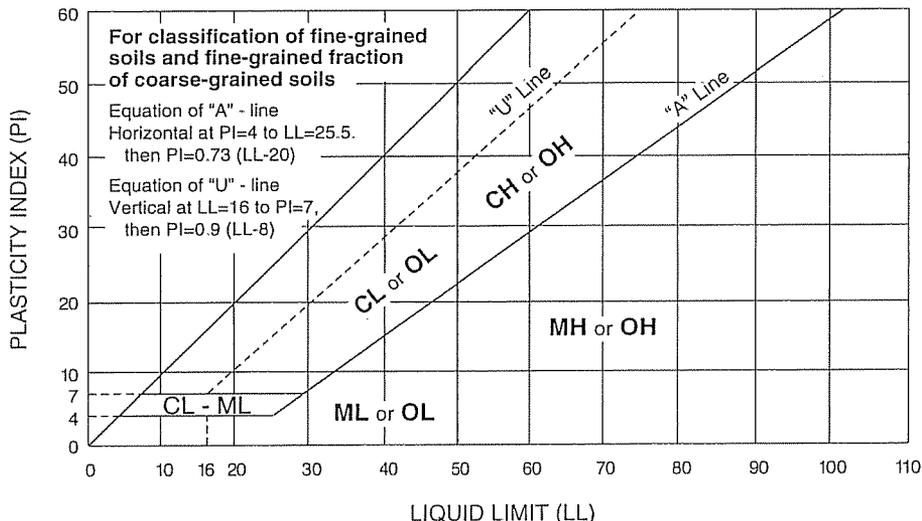
^MIf soil contains $\geq 30\%$ plus No. 200, predominantly gravel, add "gravelly" to group name.

^N $PI \geq 4$ and plots on or above "A" line.

^O $PI < 4$ or plots below "A" line.

^P PI plots on or above "A" line.

^Q PI plots below "A" line.



GENERAL NOTES:

1. ALL CONSTRUCTION TO BE IN ACCORDANCE WITH THE WEBSTER COUNTY REGULATIONS.
2. CONTRACTOR SHALL NOTIFY ALL UTILITIES AT LEAST 24 HOURS PRIOR TO START OF CONSTRUCTION TO VERIFY LOCATION OF ALL UTILITIES SHOWN OR NOT SHOWN.
3. ALL UTILITIES WITHIN ROADWAY SHALL BE BACKFILLED WITH STONE.
4. CONTRACTOR SHALL REPAIR AT HIS EXPENSE DAMAGE TO ANY EXISTING IMPROVEMENTS DURING CONSTRUCTION, SUCH AS, BUT NOT LIMITED TO DRAINAGE, UTILITIES, PAVEMENT, STRIPPING, CURBS, ETC.. REPAIRS SHALL BE EQUAL TO OR BETTER THAN EXISTING CONDITIONS.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING ALL UNUSABLE MATERIALS FROM THE SITE.
6. CONTRACTOR SHALL COORDINATE WITH POWER COMPANY PROVIDING TEMPORARY SERVICE FOR CONSTRUCTION FACILITIES DURING CONSTRUCTION.
7. THE CONTRACTOR IS SPECIFICALLY CAUTIONED ABOUT THE LOCATION AND/OR ELEVATIONS OF EXISTING UTILITIES SHOWN ON THIS DRAWING. THEY ARE BASED UPON RECORDS FROM VARIOUS UTILITY COMPANIES, DEEDS, AND PLATS OF RECORD, AND WHERE POSSIBLE ACTUAL FIELD MEASUREMENTS. THIS INFORMATION IS NOT TO BE TAKEN EXACT OR COMPLETE.
8. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE EXACT LOCATION OF EXISTING UTILITIES WHICH MAY CONFLICT WITH PROPOSED IMPROVEMENTS.
9. THIS PROJECT WILL NOT REQUIRE WATER OR SEWER SERVICE.
10. CONTRACTOR SHALL REMOVE ANY DIRT OR MUD FROM TIRES OF ANY CONSTRUCTION VEHICLES PRIOR TO LEAVING SITE.
11. REFER TO BUILDING/TOWER PLANS FOR PROPOSED DIMENSIONS AND OTHER SPECIFICS WHICH ARE NOT SHOWN.
12. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING A PROPER TRAFFIC CONTROL PLAN FOR PUBLIC SAFETY ADJACENT TO CONSTRUCTION SITE. THE TRAFFIC CONTROL PLAN MUST BE IN ACCORDANCE WITH LATEST MUTCD EDITION.
13. CONTACT LOCAL GOVERNING JURISDICTION FOR TYPE AND SIZE OF GENERATOR FUEL LINE PRIOR TO INSTALLATION.

SITE DEVELOPMENT PLANS FOR T-MOBILE

SITE #: LV0463A
SITE NAME: SEBREE
E911 ADDRESS: 3300 STATE ROAD 370 E
SEBREE, KENTUCKY 42455

SIGNATURE AUTHORIZATIONS:

RF ENGINEER APPROVAL:
SIGNATURE _____ DATE: _____

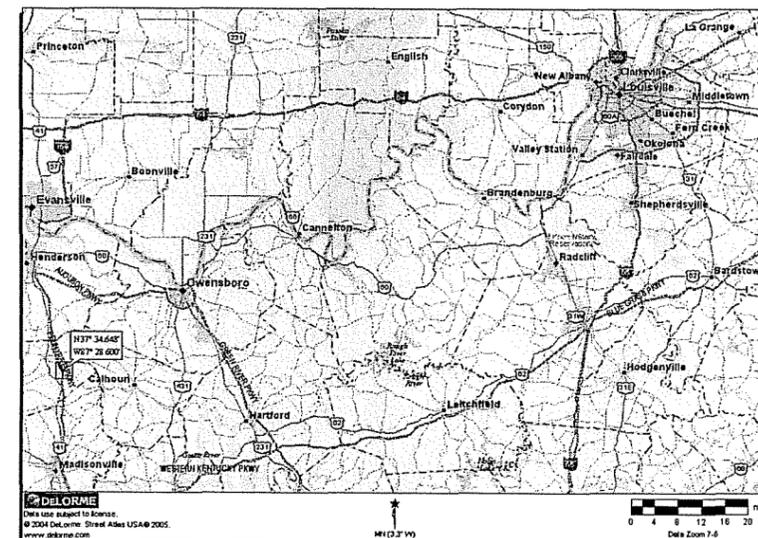
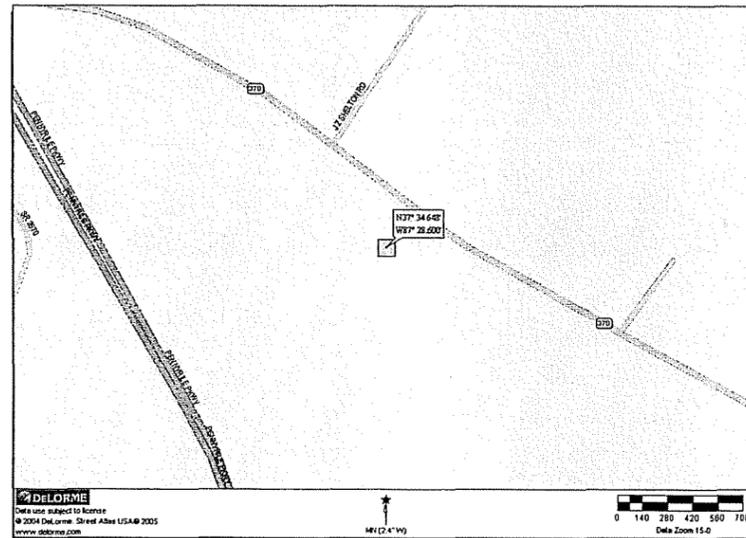
CONSTRUCTION MANAGER APPROVAL:
SIGNATURE _____ DATE: _____

SITE ACQUISITION AGENT APPROVAL:
SIGNATURE _____ DATE: _____

LAND OWNER APPROVAL:
SIGNATURE _____ DATE: _____

OPS APPROVAL:
SIGNATURE _____ DATE: _____

ZONING/PERMITTING APPROVAL:
SIGNATURE _____ DATE: _____



DIRECTIONS:

FROM THE T-MOBILE OFFICE IN LOUISVILLE: TAKE I-64 EAST TO I-65 SOUTH TO ELIZABETHTOWN. EXIT I-65 AT EXIT 91 TO THE WESTERN KENTUCKY PARKWAY. GO SOUTHWEST TO EXIT 38, THE PENNY RILE PARKWAY NORTH.. EXIT THE PENNY RILE PARKWAY AT EXIT 63 AND GO LEFT OR WEST TO SEBREE ON HWY 58. TURN LEFT ONTO HWY 41 (SOUTH) AND GO TO HWY 370. TURN LEFT (EAST) AND FOLLOW APPROX. 4 MILES. AFTER GOING UNDER THE PENNY RILE, THE SITE WILL BE THE 2ND DRIVEWAY ON THE RIGHT. THE SITE SITS IN A PASTURE BEHIND THE MOBILE TRAILER.

VICINITY MAP

NOT TO SCALE

"2C" COORDINATES:

LATITUDE: N 37° 34' 38.7"
LONGITUDE: W 87° 28' 36"
GROUND ELEV: 401 FT. AMSL



Handwritten signature and date: J. Hardy 1/16/10

ELECTRIC CO.: KENTUCKY UTILITIES CONTACT: DARREN SMILEY PHONE: (859) 255-0394	ZONING: N/A
---	-----------------------

TELEPHONE CO.: BELLSOUTH PHONE: (800) 757-6500	PARCEL I.D.:
---	---------------------

PERMIT JURISDICTION: N/A	LESSOR: JACKIE A. NUNN 3300 STATE ROAD 370 EAST SEBREE, KY 42455 PHONE: (270) 835-2577
------------------------------------	---

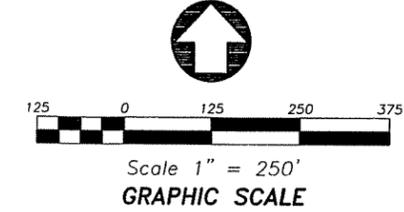
LESSEE: T-Mobile T-MOBILE - NASHVILLE MARKET 3800 EZELL ROAD, SUITE 815 NASHVILLE, TENNESSEE 37211 CONTACT: RICK ELMS PHONE: (615) 504-7285

ENGINEER:  HARDY ENGINEERING, INC. 209 LINDEN STREET TRUSSVILLE, ALABAMA 35173 CONTACT: TIM HARDY PHONE: (205) 655-1427 MOBILE: (205) 222-7563

INDEX:	REV.:	DATE:
T1 TITLE SHEET		
SURVEY SHEET 1 OF 2		
SURVEY SHEET 2 OF 2		
C0 GRADING PLAN		
C1 SITE LAYOUT		
C1.5 COMPOUND LAYOUT		
C2 ELEVATION		
C3 ANTENNA & COAX GROUNDING DETAIL		
C4 SLED CONDUIT & EQUIPMENT LAYOUT		
C5 GPS & GSM ANTENNA DETAILS & NOTES		
C5.5 ELECTRICAL DETAILS		
C6 GROUNDING LAYOUT		
C7 ELECTRICAL CONDUIT LAYOUT		
C8 CONCRETE FOUNDATION DETAIL		
C9 WIRING DIAGRAM		
C10 UTILITY TRENCH DETAIL		
C11 FENCE DETAILS		

TAX MAP	PROPERTY OWNER	MAILING ADDRESS
090-008-001	JACKIE A. NUNN	ROUTE 2, BOX 35-A SEBREE, KY 42455
090-006-000	GARY PEYTON & JOSEPH PEYTON	P. O. BOX 205 SLAUGHTER, KY 42456
090-026-001	GARY PEYTON & JOSEPH PEYTON	P. O. BOX 205 SLAUGHTER, KY 42456
090-009-000	WILLIAM E. WRIGHT	4022 STATE ROUTE 370 EAST SEBREE, KY 42455
090-009-001	WILLIAM D. & MARTHA WRIGHT	4046 STATE ROUTE 370 EAST SEBREE, KY 42455
090-009-002	WILLIAM D. & MARTHA WRIGHT	4046 STATE ROUTE 370 EAST SEBREE, KY 42455
090-006-002	PAMELA HUNTER	3949 STATE ROUTE 370 EAST SEBREE, KY 42455
090-006-004	PAMELA & DEWAYNE HUNTER	3949 STATE ROUTE 370 EAST SEBREE, KY 42455
090-006-001	ROSALIE EDWARDS	4087 STATE ROUTE 370 EAST SEBREE, KY 42455
090-007-000	ALLIED RESOURCES, INC.	P. O. BOX 417 SEBREE, KY 42455

KY (SOUTH) SPC GRID NORTH



LEGENDS:

- IRON PIN SET THIS SURVEY
- IRON PIN FOUND
- RIGHT-OF-WAY/PROPERTY LINE
- PROPERTY BOUNDARY
- 560--- INDEX CONTOURS
- 1' INTERVAL
- OHE & T— OVERHEAD ELECTRIC & TELEPHONE LINES
- OHE— OVERHEAD ELECTRIC
- UGE— UNDERGROUND ELECTRIC

REVISIONS

PROJECT NO. 25.165.20
 NOVEMBER 30, 2005
 DRAWN BY: L.E.F.
 CHECKED BY: F.V.N.

SHARONDALE SURVEYING INC.

4205 HILLSBORO PIKE
 HOBSBACH BUILDING SUITE 301
 (615) 292-0435
 FAX (615) 292-7870
 EMAIL: sharon@sharondale.com

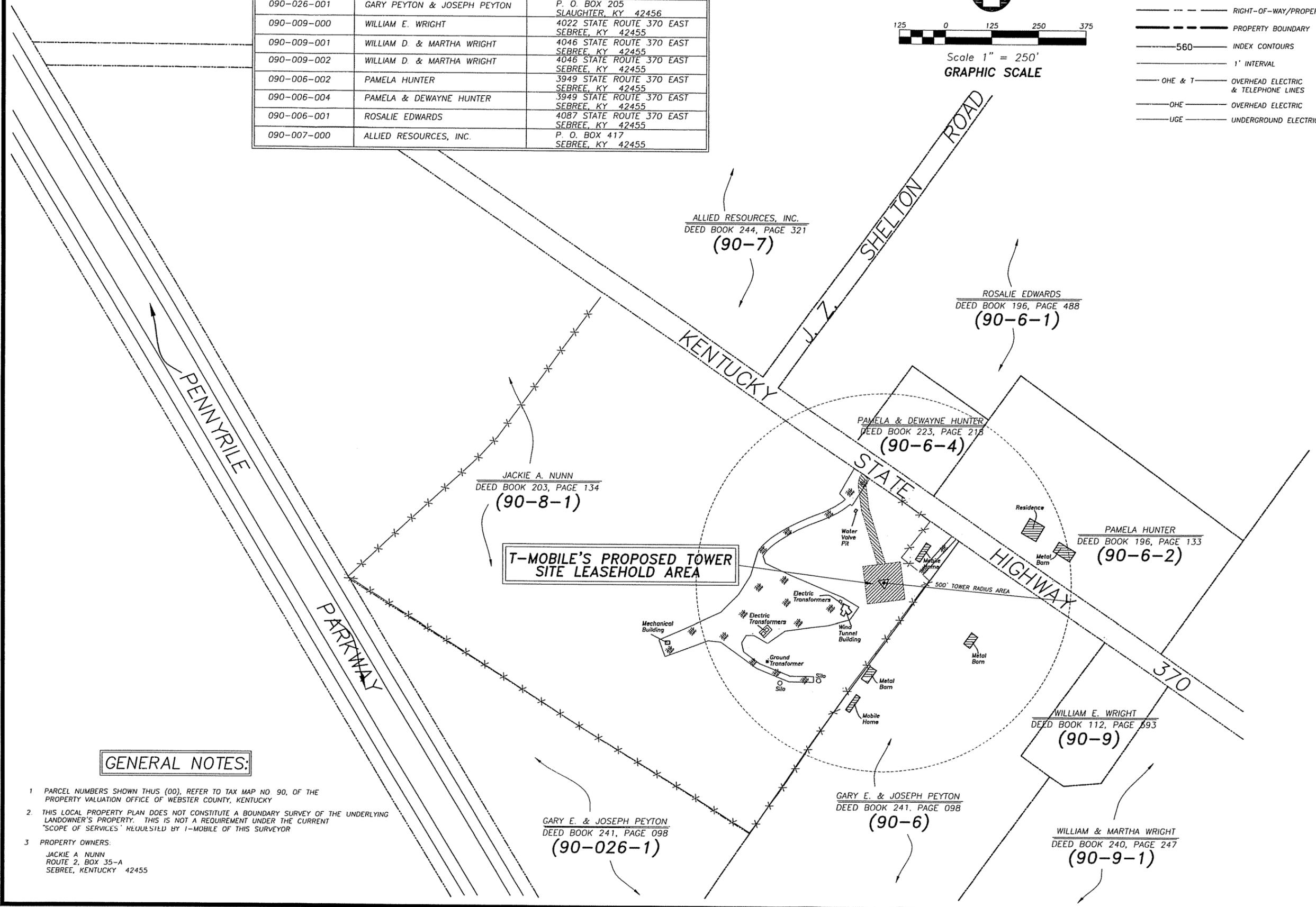
T-MOBILE SITE SURVEY: KENTUCKY
 "SEBREE" TOWER SITE
 LOCATED IN: SEBREE, WEBSTER COUNTY, KENTUCKY
 LOCAL PROPERTY AREA IMPROVEMENT MAP PLAN SHEET
 PREPARED FOR T-MOBILE
 T-MOBILE SITE NO.: 9LV0463

SHEET NUMBER:
1 OF 1

PROJECT NUMBER:
 J.N. 25.165.20

GENERAL NOTES:

- PARCEL NUMBERS SHOWN THUS (00), REFER TO TAX MAP NO 90, OF THE PROPERTY VALUATION OFFICE OF WEBSTER COUNTY, KENTUCKY
- THIS LOCAL PROPERTY PLAN DOES NOT CONSTITUTE A BOUNDARY SURVEY OF THE UNDERLYING LANDOWNER'S PROPERTY. THIS IS NOT A REQUIREMENT UNDER THE CURRENT "SCOPE OF SERVICES" REQUESTED BY T-MOBILE OF THIS SURVEYOR
- PROPERTY OWNERS:
 JACKIE A NUNN
 ROUTE 2, BOX 35-A
 SEBREE, KENTUCKY 42455



FLOOD HAZARD STATEMENT:

THIS COMMUNICATIONS SITE (THE SUBJECT SITE AS SHOWN) IS NOT LOCATED WITHIN THE LIMITS OF A DESIGNATED 100 YEAR FLOOD ZONE PER FEMA FIRM MAP COMMUNITY PANEL NUMBER 210302, WEBSTER COUNTY, KENTUCKY. NO DETAILED FLOOD STUDY HAS BEEN CONDUCTED WITHIN THIS COMMUNITY.

PROJECT BENCHMARK

TBM ELEVATION DATUM IS BASED UPON GPS SURVEY METHODS AND PROCEDURES
TOP OF "CAPPED" IRON PIN SET THIS SURVEY
ELEVATION = 403.60' M.S.L.
(SEE PLAN FOR LOCATION)

T-MOBILE'S 20' WIDE OVERHEAD ELECTRIC EASEMENT AREA DESCRIPTION

BEING A TWENTY FOOT WIDE OVERHEAD ELECTRIC AND PUBLIC UTILITY EASEMENT EXTENDING FROM THE SOUTHEAST MARGIN OF JACKIE A NUNN PROPERTY TO THE EAST MARGIN OF T-MOBILE'S TOWER SITE LEASEHOLD AREA, AT ALL TIMES BEING TEN FEET WIDE EACH SIDE AND PARALLEL TO THE FOLLOWING DESCRIBED CENTERLINE:

BEGINNING AT A POINT IN THE SOUTHEAST MARGIN OF THE JACKIE A NUNN PROPERTY LOCATED AT KENTUCKY STATE PLANE (SOUTH) NAD 83 GRID COORDINATE NORTH 2,098,051.21, EAST 1,140,258.77, SAID IRON PIN BEING SOUTH 36 DEGREES 45 MINUTES 00 SECONDS WEST, 10.84 FEET FROM A METAL T-POST FOUND IN THE SOUTH MARGIN OF KENTUCKY STATE HIGHWAY 370 AT THE NORTHEAST CORNER OF THE PROPERTY CONVEYED TO JACKIE A. NUNN, OF RECORD IN DEED BOOK 203, PAGE 134, OF THE COUNTY COURT CLERK'S OFFICE OF WEBSTER COUNTY, KENTUCKY;

THENCE, NORTH 80 DEGREES 08 MINUTES 00 SECONDS WEST, 83.24 FEET TO AN EXISTING POWER POLE;

THENCE, SOUTH 36 DEGREES 16 MINUTES 15 SECONDS WEST, 111.64 FEET TO A POINT IN THE EAST MARGIN OF T-MOBILE'S TOWER SITE LEASEHOLD AREA, SAID POINT BEING SOUTH 7 DEGREES 15 MINUTES 30 SECONDS EAST, 27.99 FEET FROM AN IRON PIN SET AT THE NORTHEAST CORNER OF T-MOBILE'S TOWER SITE LEASEHOLD AREA, CONTAINING 3.898 SQUARE FEET, (0.09 ACRES)

BEING A PORTION OF THE PROPERTY CONVEYED TO JACKIE A. NUN, OF RECORD IN DEED BOOK 203, PAGE 134, OF THE COUNTY COURT CLERK'S OFFICE OF WEBSTER COUNTY, KENTUCKY

T-MOBILE'S 20' WIDE JOINT INGRESS / EGRESS & PUBLIC UTILITY ACCESS EASEMENT

JACKIE A. NUNN
DEED BOOK 203, PAGE 134
(90-8-1)

CENTERLINE OF PROPOSED SELF-SUPPORTING TOWER
LATITUDE = 37° 34' 38.7"
LONGITUDE = 87° 28' 36.0"
ELEVATION = 401.00' M.S.L.

UTILITY NOTE:

THIS SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES ABOVE GRADE AND UNDERGROUND UTILITIES SHOWN WERE TAKEN FROM VISIBLE APPURTENANCES AT THE SITE, PUBLIC RECORDS AND/OR MAPS PREPARED BY OTHERS. THE SURVEYOR MAKES NO GUARANTEE THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES ARE IN THE EXACT LOCATION INDICATED. THEREFORE, RELIANCE UPON THE TYPE, SIZE AND LOCATION OF UTILITIES SHOWN SHOULD BE DONE SO WITH THIS CIRCUMSTANCE CONSIDERED. DETAILED VERIFICATION OF EXISTENCE, LOCATION AND DEPTH SHOULD ALSO BE MADE PRIOR TO ANY DECISION RELATIVE THERETO IS MADE. AVAILABILITY AND COST OF SERVICE SHOULD BE CONFIRMED WITH THE APPROPRIATE UTILITY COMPANY.

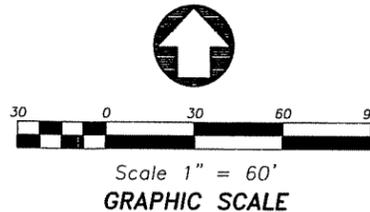
CENTERLINE DATA - T-MOBILE'S 20' WIDE JOINT INGRESS/EGRESS & PUBLIC UTILITY ACCESS EASEMENT

NO.	DELTA/BEARING	RADIUS	LENGTH	TAN	CHORD
1	41° 47' 22"	45.13'	32.92'	17.23'	S 13° 37' 57" W/32.19'
2	S 07° 15' 44" E	---	59.14'	---	---
3	S 16° 37' 00" E	---	152.12'	---	---

LEGENDS:

- IRON PIN SET THIS SURVEY
- IRON PIN FOUND
- RIGHT-OF-WAY/PROPERTY LINE
- PROPERTY BOUNDARY
- 560 INDEX CONTOURS
- 1' INTERVAL
- OHE & T OVERHEAD ELECTRIC & TELEPHONE LINES
- OHE OVERHEAD ELECTRIC
- UGE UNDERGROUND ELECTRIC

KY (SOUTH) SPC GRID NORTH



T-MOBILE'S TOWER SITE LEASEHOLD AREA DESCRIPTION

BEGINNING AT A CAPPED IRON PIN (#3093) SET AT THE NORTHEAST CORNER OF T-MOBILE'S TOWER SITE LEASEHOLD AREA LOCATED AT KENTUCKY STATE PLANE (SOUTH) NAD 83 GRID COORDINATE NORTH 2,098,003.23, EAST 1,140,107.17, SAID IRON PIN BEING SOUTH 7 DEGREES 16 MINUTES 52 SECONDS WEST, 167.93 FEET FROM A METAL T-POST FOUND IN THE SOUTH MARGIN OF KENTUCKY STATE HIGHWAY 370 AT THE NORTHEAST CORNER OF THE PROPERTY CONVEYED TO JACKIE A. NUNN, OF RECORD IN DEED BOOK 203, PAGE 134, OF THE COUNTY COURT CLERK'S OFFICE OF WEBSTER COUNTY, KENTUCKY;

THENCE, SOUTH 7 DEGREES 15 MINUTES 30 SECONDS EAST, 100.00 FEET TO A CAPPED IRON PIN (#3093) SET AT THE SOUTHWEST CORNER OF T-MOBILE'S TOWER SITE LEASEHOLD AREA;

THENCE, SOUTH 82 DEGREES 44 MINUTES 30 SECONDS WEST, 100.00 FEET TO A CAPPED IRON PIN (#3093) SET AT THE SOUTHWEST CORNER OF T-MOBILE'S TOWER SITE LEASEHOLD AREA;

THENCE, NORTH 7 DEGREES 15 MINUTES 30 SECONDS WEST, 100.00 FEET TO A CAPPED IRON PIN (#3093) SET AT THE NORTHWEST CORNER OF T-MOBILE'S TOWER SITE LEASEHOLD AREA;

THENCE, NORTH 82 DEGREES 44 MINUTES 30 SECONDS EAST, 100.00 FEET TO THE POINT OF BEGINNING, CONTAINING 10,000 SQUARE FEET, (0.23 ACRES).

BEING A PORTION OF THE PROPERTY CONVEYED TO JACKIE A. NUN, OF RECORD IN DEED BOOK 203, PAGE 134, OF THE COUNTY COURT CLERK'S OFFICE OF WEBSTER COUNTY, KENTUCKY

T-MOBILE'S 20' WIDE OVERHEAD ELECTRIC & PUBLIC UTILITY EASEMENT

T-MOBILE'S 20' WIDE JOINT INGRESS / EGRESS & PUBLIC UTILITY ACCESS EASEMENT

BEING A TWENTY FOOT WIDE JOINT INGRESS / EGRESS AND PUBLIC UTILITY ACCESS EASEMENT EXTENDING FROM THE SOUTH MARGIN OF KENTUCKY STATE HIGHWAY 370 TO THE NORTHWEST MARGIN OF T-MOBILE'S TOWER SITE LEASEHOLD AREA, AT ALL TIMES BEING TEN FEET WIDE EACH SIDE AND PARALLEL TO THE FOLLOWING DESCRIBED CENTERLINE:

BEGINNING AT A CAPPED IRON PIN (#3093) SET IN THE SOUTH MARGIN OF KENTUCKY STATE HIGHWAY 370 LOCATED AT KENTUCKY STATE PLANE (SOUTH) NAD 83 GRID COORDINATE NORTH 2,098,232.63, EAST 1,140,014.18, SAID IRON PIN BEING NORTH 55 DEGREES 28 MINUTES 16 SECONDS WEST, 304.76 FEET FROM A METAL T-POST FOUND IN THE SOUTH MARGIN OF KENTUCKY STATE HIGHWAY 370 AT THE NORTHEAST CORNER OF THE PROPERTY CONVEYED TO JACKIE A. NUNN, OF RECORD IN DEED BOOK 203, PAGE 134, OF THE COUNTY COURT CLERK'S OFFICE OF WEBSTER COUNTY, KENTUCKY;

THENCE, LEAVING THE SOUTH MARGIN OF KENTUCKY STATE HIGHWAY 370, ALONG A CURVE TO THE LEFT WITH A CENTRAL ANGLE OF 41 DEGREES 47 MINUTES 22 SECONDS, A RADIUS OF 45.13 FEET, AND A CHORD BEARING OF SOUTH 13 DEGREES 37 MINUTES 57 SECONDS WEST, 32.19 FEET, A TOTAL DISTANCE OF 32.92 FEET TO A CAPPED IRON PIN (#3093) SET;

THENCE, SOUTH 7 DEGREES 15 MINUTES 44 SECONDS EAST, 59.14 FEET TO A CAPPED IRON PIN (#3093) SET;

THENCE, SOUTH 16 DEGREES 37 MINUTES 00 SECONDS EAST, 152.12 FEET TO A CAPPED IRON PIN (#3093) SET IN THE NORTHWEST MARGIN OF T-MOBILE'S TOWER SITE LEASEHOLD AREA, SAID IRON PIN BEING SOUTH 82 DEGREES 44 MINUTES 30 SECONDS WEST, 50.00 FEET FROM AN IRON PIN SET AT THE NORTHEAST CORNER OF T-MOBILE'S TOWER SITE LEASEHOLD AREA, CONTAINING 4,884 SQUARE FEET, (0.112 ACRES).

BEING A PORTION OF THE PROPERTY CONVEYED TO JACKIE A. NUN, OF RECORD IN DEED BOOK 203, PAGE 134, OF THE COUNTY COURT CLERK'S OFFICE OF WEBSTER COUNTY, KENTUCKY

GENERAL NOTES:

- TOPOGRAPHIC ELEVATIONS SHOWN WERE DERIVED FROM GRID CROSS-SECTIONS, USING A TOTAL STATION FOR HORIZONTAL AND VERTICAL CONTROL. ALL DISTANCES MEASURED HAVE BEEN ADJUSTED FOR TEMPERATURE.
- NO TITLE COMMITMENT WAS FURNISHED TO THIS SURVEYOR AT THE TIME OF THIS SURVEY. THEREFORE, THIS SURVEY IS SUBJECT TO ANY FINDINGS THAT AN ACCURATE TITLE SEARCH MAY REVEAL.
- PARCEL NUMBERS SHOWN THUS (00), REFER TO TAX MAP NO. 90, OF THE PROPERTY VALUATION OFFICE OF WEBSTER COUNTY, KENTUCKY.
- BEARINGS SHOWN ARE REFERENCED FROM GLOBALLY POSITIONED SATELLITE MONUMENTS AS ESTABLISHED FOR THIS SURVEY.
- PROPERTY OWNER:
JACKIE A. NUNN
ROUTE 2, BOX 35-A
SEBREE, KENTUCKY 42455

I HEREBY CERTIFY THAT THE SURVEY DEPICTED BY THIS PLAN WAS PREPARED BY PERSONS UNDER MY DIRECT SUPERVISION BY THE METHOD OF RANDOM TRAVERSE WITH SIDE SHOTS. THE UNADJUSTED PRECISION OF THE TRAVERSE RATIO WAS 1: 13,250, AND WAS NOT ADJUSTED. THE SURVEY AS SHOWN HEREON IS A CLASS "A" SURVEY, AND THE ACCURACY AND PRECISION OF SAID SURVEY MEETS ALL THE SPECIFICATIONS OF THIS CLASS.

FRANK V. NEELEY, P.L.S. 3093 DATE _____

REVISIONS:

PROJECT NO.: 25.165.20
NOVEMBER 30, 2005
DRAWN BY: L.E.F.
CHECKED BY: F.V.N.

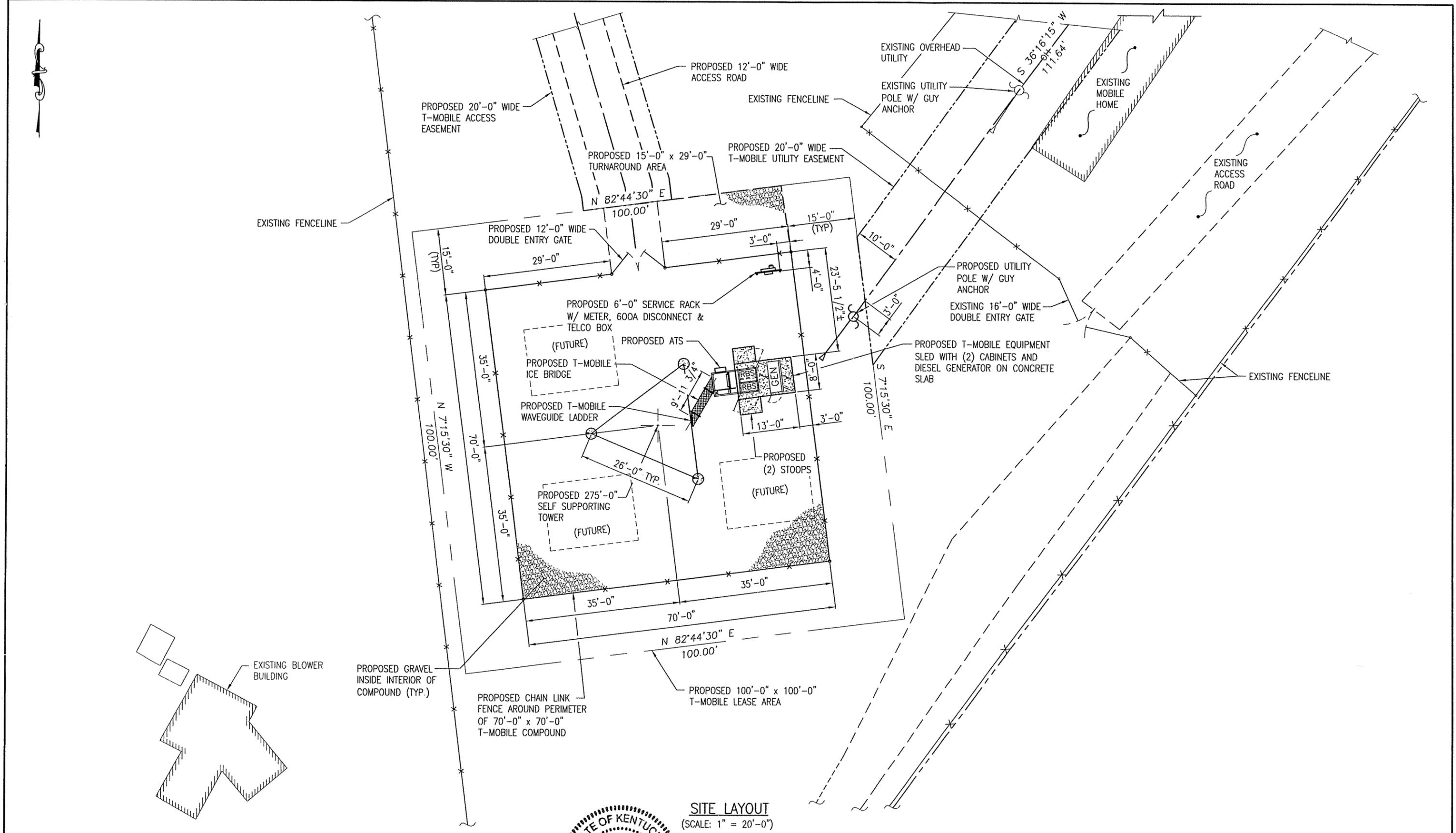
SHARONDALE SURVEYING INC.
4205 HILLSBORO PL. SE
NASHVILLE, TN 37215
(615) 297-0435
FAX (615) 292-7870
EMAIL: sharon@sharondale.net

T-MOBILE SITE SURVEY: KENTUCKY "SEBREE" TOWER SITE
LOCATED IN: SEBREE, WEBSTER COUNTY, KENTUCKY
TOWER SITE LEASEHOLD AREA SURVEY
PREPARED FOR T-MOBILE
T-MOBILE SITE NO.: 9LV0463

SHEET NUMBER:

1 OF 1

PROJECT NUMBER:
JN 25.165.20



SITE LAYOUT
(SCALE: 1" = 20'-0")

ITEM	BY	CHK. BY	DATE



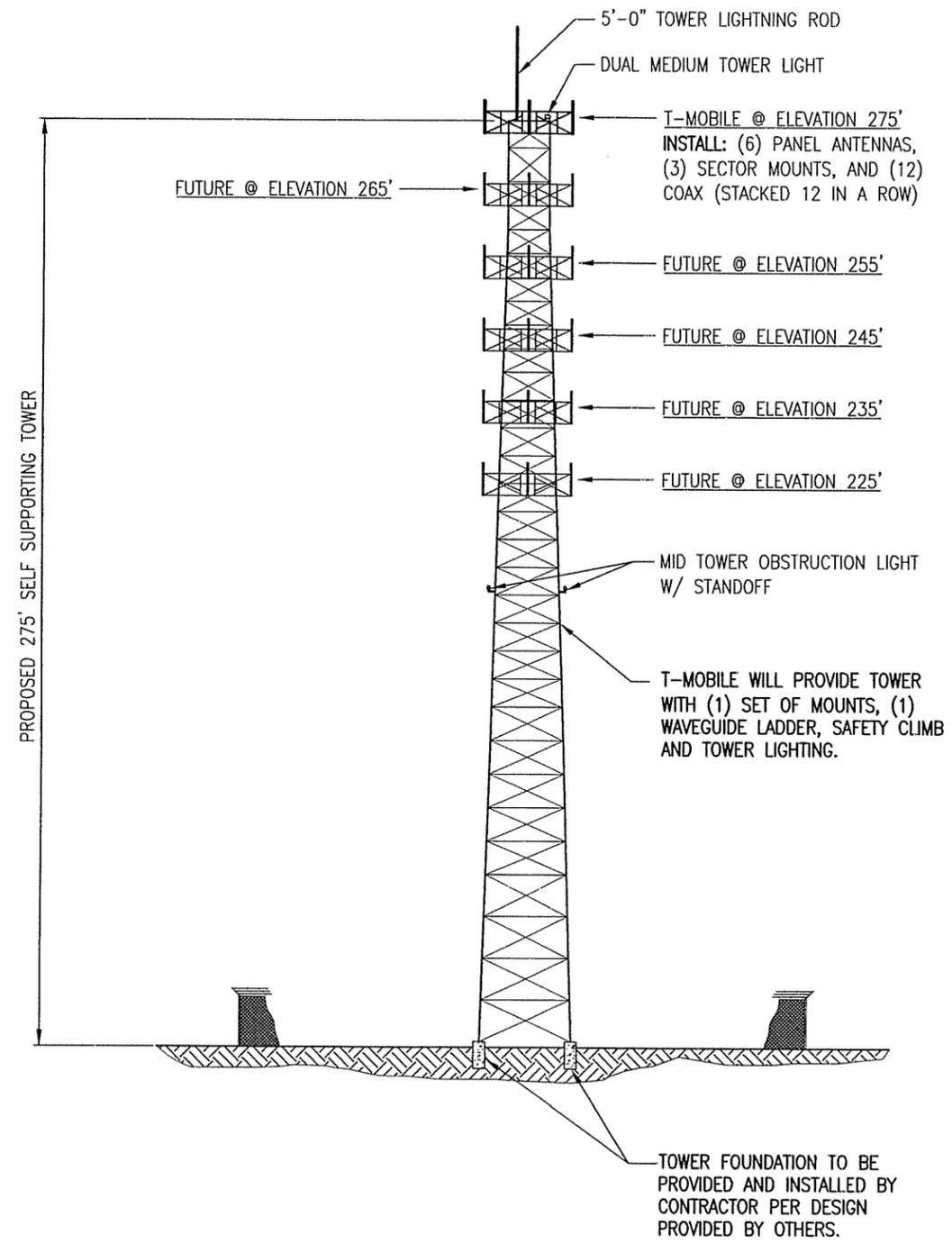
DRAWN BY: J.F. STFGER DATE: 12/07/05
 CHECKED BY: T.L. HARDY DATE: 12/07/05
 APPROVED BY: [Signature] DATE: 1/16/16

HARDY ENGINEERING, INC.
 ENGINEERING AND CONSULTING
 209 LINDEN STREET, P.O. BOX 708
 TRUSSVILLE, AL 35173
 PHONE: (205) 655-1427 FAX: (205) 661-9027

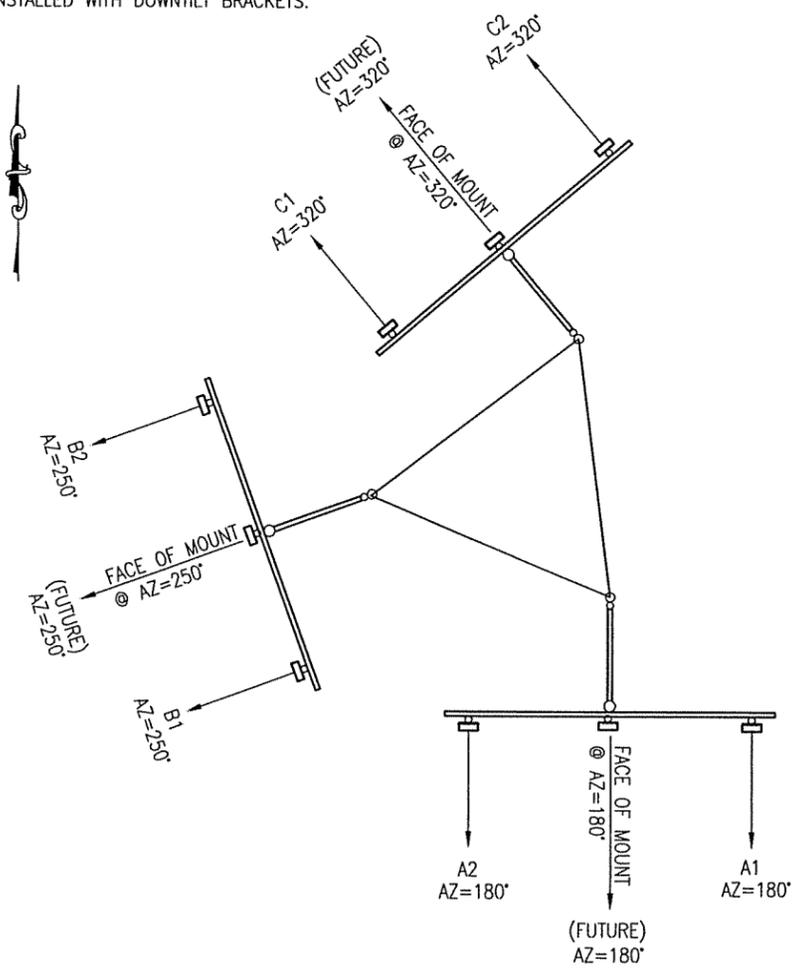
COMPOUND LAYOUT
 LV0463A SITE: SEBREE
 SEBREE, KENTUCKY
 FOR
 T-MOBILE
 LOUISVILLE, KENTUCKY
 CAD No: LV0463_C1.5 SCALE: AS SHOWN DWG. No: **C1.5**

ANTENNA AND COAX CABLE SCHEDULE								
ANTENNA MARK	SECTOR	ANTENNA ①	COAX CABLE FEED LOCATION	AZIMUTH (0° = NORTH)	COAX COLOR CODE	COAX CABLE SIZE	MECHANICAL DOWN TILT ②	RADIATION CENTER
A1	A	PCSA065-30-2	BACK	180°	TX/RX - 1 RED	(2) 1 5/8"φ	0°	275'
A2	A	PCSA065-30-2	BACK	180°	TX/RX - 2 RED	(2) 1 5/8"φ	0°	275'
A3		(FUTURE)						
B1	B	PCSA065-19-2	BACK	250°	TX/RX - 1 BLUE	(2) 1 5/8"φ	0°	275'
B2	B	PCSA065-19-2	BACK	250°	TX/RX - 2 BLUE	(2) 1 5/8"φ	0°	275'
B3		(FUTURE)						
C1	C	PCSA065-30-2	BACK	320°	TX/RX - 1 GREEN	(2) 1 5/8"φ	0°	275'
C2	C	PCSA065-30-2	BACK	320°	TX/RX - 2 GREEN	(2) 1 5/8"φ	0°	275'
C3		(FUTURE)						

- ① FINAL ANTENNA TYPE TO BE DETERMINED BY T-MOBILE, ANTENNAS TO BE PROVIDED BY T-MOBILE AND INSTALLED BY CONTRACTOR.
- ② ALL ANTENNAS TO BE INSTALLED WITH DOWNTILT BRACKETS.

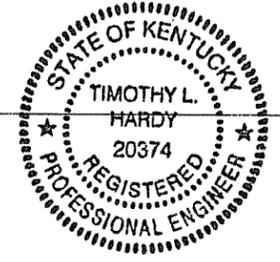


TOWER ELEVATION
 (SCALE: 1" = 20'-0")



ANTENNA AZIMUTHS
 (SCALE: NTS)

ITEM	REVISIONS	BY	CHK. BY	DATE



DRAWN BY: J. E. STEGER DATE: 12/07/05
 CHECKED BY: T.L. HARDY DATE: 12/07/05
 APPROVED BY: [Signature] DATE: 1/16/06

HARDY ENGINEERING, INC.
 ENGINEERING AND CONSULTING
 209 LINDEN STREET, P.O. BOX 708
 TRUSSVILLE, AL 35173
 PHONE: (205) 655-1427 FAX: (205) 661-9027

DWG NAME: **TOWER ELEVATION**
 LV0463A SITE: SEBREE
 SEBREE, KENTUCKY
 FOR T-MOBILE
 LOUISVILLE, KENTUCKY
 DWG No: LV0463_C2 SCALE: AS SHOWN DWG No: C2

SECTOR A

SECTOR B

SECTOR C

MATERIAL LIST

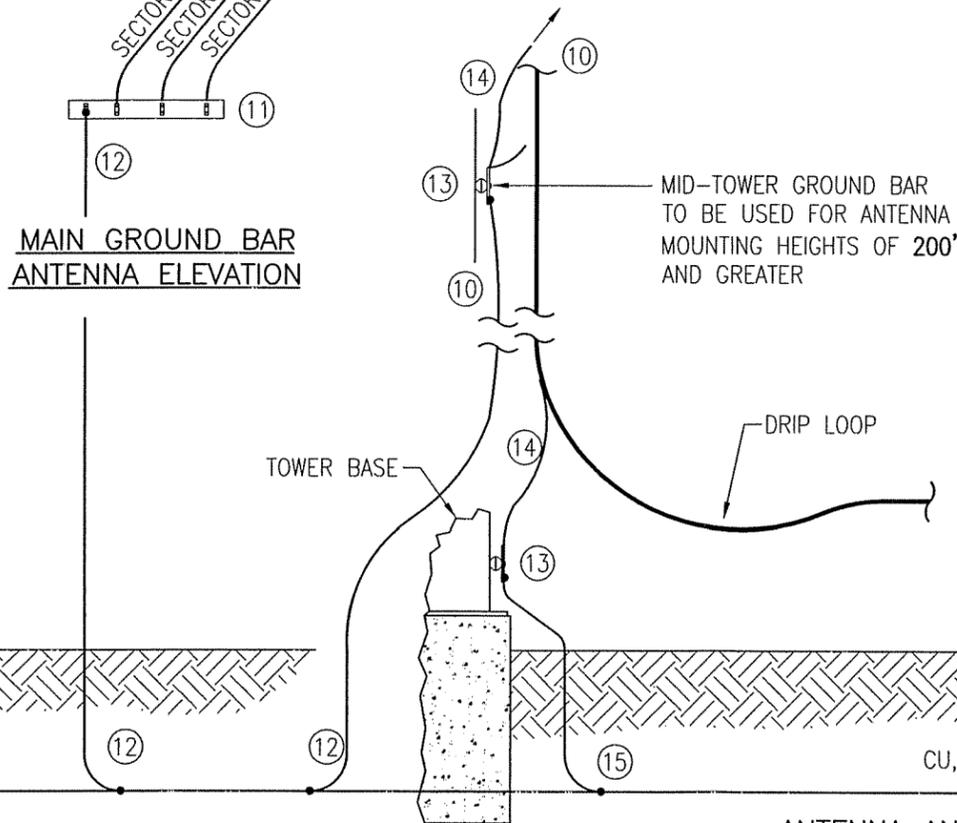
- ① PANEL ANTENNA
- ② JUMPER, 1/2"Ø x 6'
- ③ DUAL DUPLEX TMA
- ④ JUMPER, 1/2"Ø x 3'
- ⑤ COAX, 7/8"Ø OR 1 5/8"Ø
- ⑥ ANTENNA GROUND, #6 THW INSULATED GROUND WIRE
- ⑦ DUAL DUPLEX TMA GROUND, #6 THW INSULATED GROUND WIRE
- ⑧ COAX GROUND KIT
- ⑨ 4" x 14" x 1/4" GROUND BAR MOUNTED ON CHERRY INSULATORS
- ⑩ 2/0 INSULATED GROUND WIRE
- ⑪ MAIN GROUND BAR ON CHERRY INSULATORS, ANTENNA ELEVATION
- ⑫ 2/0 STRAND INSULATED GROUND WIRE
- ⑬ GROUND BAR ON CHERRY INSULATORS, TOWER BASE
- ⑭ COAX GROUND KIT
- ⑮ 2/0 INSULATED GROUND WIRE
- ⑯ GROUND TERMINATION BAR ON CHERRY INSULATORS, SLED
- ⑰ LINES ATTACHED TO THE OUTER PARTS ON THE ANTENNAS ARE TO BE CAPPED OFF AT BOTTOM FOR FUTURE USE

NOTE:

GROUNDING OF ANTENNAS MOUNTS, COAX, AND EQUIPMENT SHALL BE IN ACCORDANCE WITH T-MOBILE'S SPECIFICATIONS.

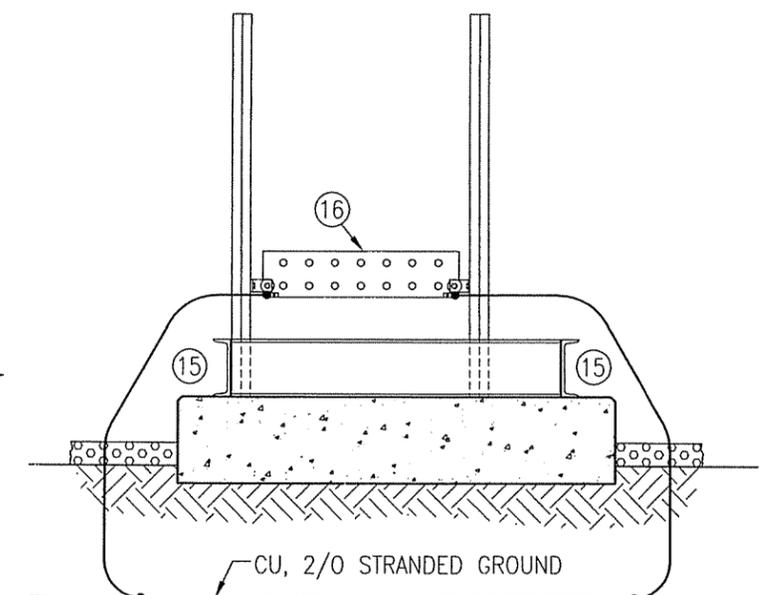
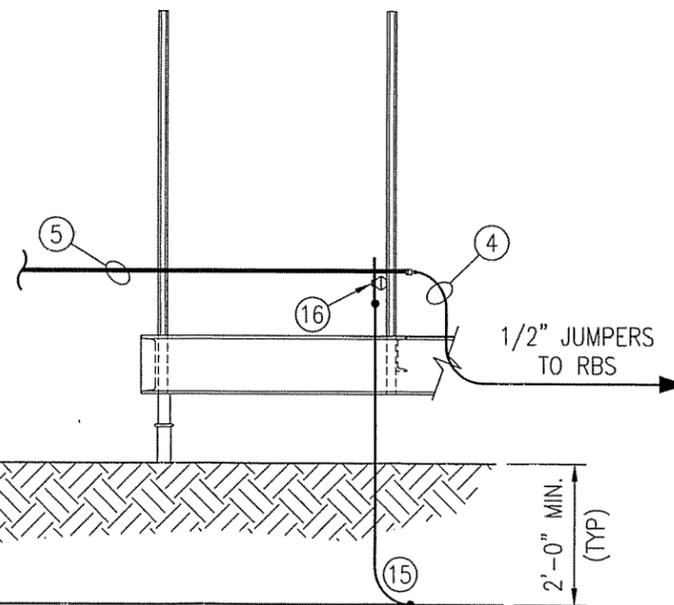
NOTE:

- 1. FOR EVERYTHING ABOVE THE TOWER BOTTOM BUSS BAR USE SINGLE HOLE LUG W/ HEAT SHRINK ON ANTENNA, TMA, TMA FILTER & 2 HOLE LUG W/ HEAT SHRINK ON BUSS BAR END OF GROUND WIRE
- 2. ALL GROUND CONNECTIONS STARTING AT THE TOWER BOTTOM BUSS BAR AND DOWN ARE TO USE EXOTHERMIC WELD OR 2 HOLE CADWELD LUG



ANTENNA AND COAX GROUNDING DETAIL

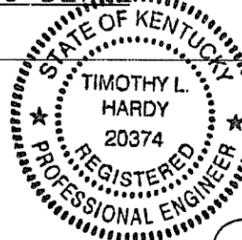
(NOT TO SCALE)



SLED TMA FILTER GROUNDING

(NOT TO SCALE)

ITEM	REVISIONS	BY	CHK. BY	DATE



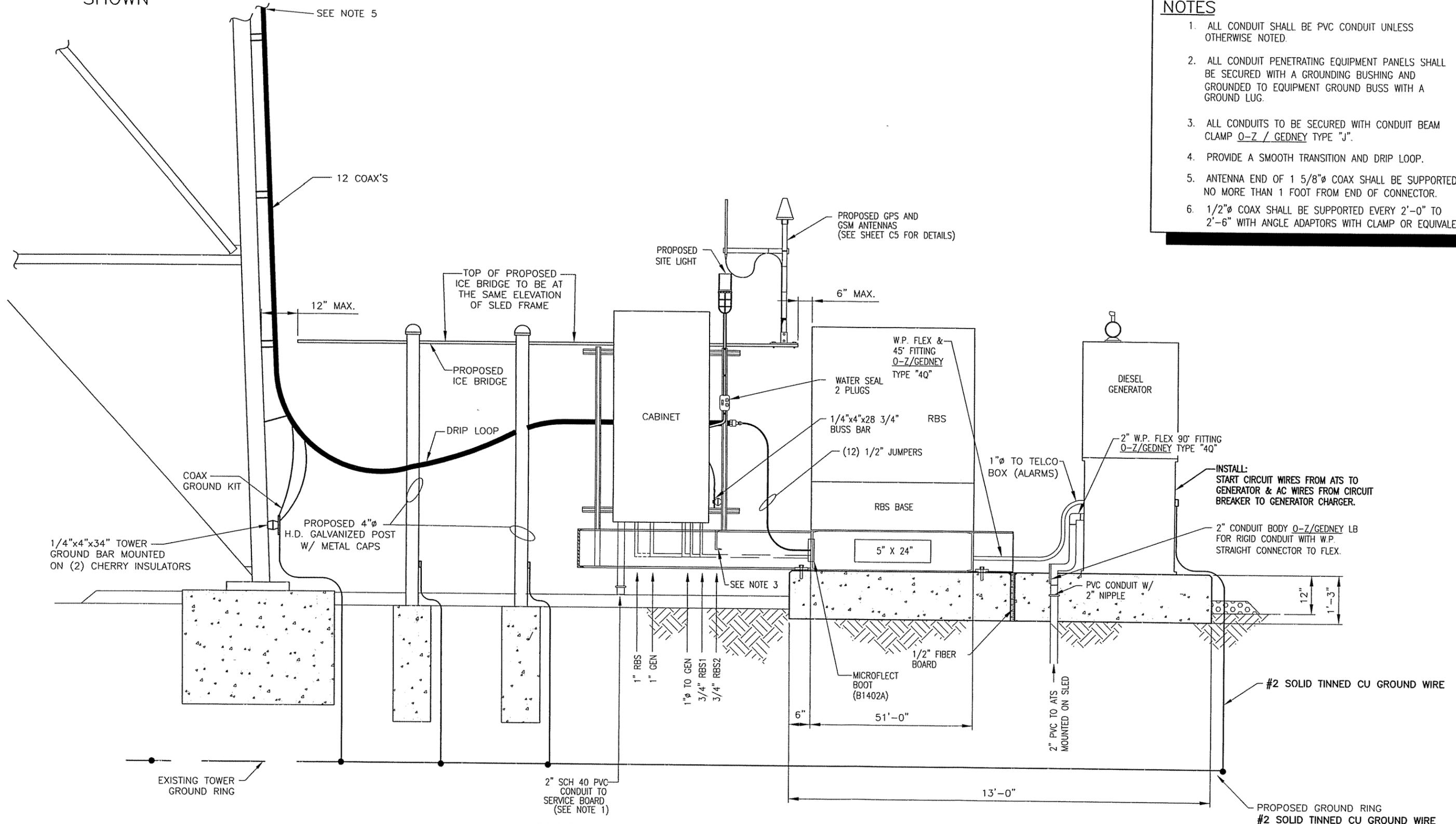
DRAWN BY: J.E. STEGER DATE: 12/07/05
 CHECKED BY: T.L. HARDY DATE: 12/07/05
 APPROVED BY: [Signature] DATE: 11/16/05

HARDY ENGINEERING, INC.
 ENGINEERING AND CONSULTING
 209 LINDEN STREET, P.O. BOX 708
 TRUSSVILLE, AL 35173
 PHONE: (205) 655-1427 FAX: (205) 661-9027

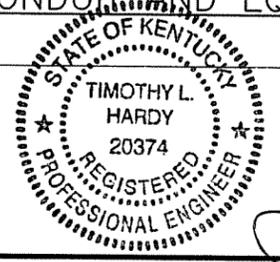
DWG. NAME: ANTENNA & COAX GROUNDING DETAIL
 STANDARD DRAWING
 FOR
 T-MOBILE
 LOUISVILLE, KENTUCKY
 DWG. No: LV0463_C3 SCALE: NOT TO SCALE DWG. No: C3

SELF SUPPORTING TOWER SHOWN

- NOTES**
1. ALL CONDUIT SHALL BE PVC CONDUIT UNLESS OTHERWISE NOTED.
 2. ALL CONDUIT PENETRATING EQUIPMENT PANELS SHALL BE SECURED WITH A GROUNDING BUSHING AND GROUNDED TO EQUIPMENT GROUND BUSS WITH A GROUND LUG.
 3. ALL CONDUITS TO BE SECURED WITH CONDUIT BEAM CLAMP O-Z / GEDNEY TYPE "J".
 4. PROVIDE A SMOOTH TRANSITION AND DRIP LOOP.
 5. ANTENNA END OF 1 5/8"Ø COAX SHALL BE SUPPORTED NO MORE THAN 1 FOOT FROM END OF CONNECTOR.
 6. 1/2"Ø COAX SHALL BE SUPPORTED EVERY 2'-0" TO 2'-6" WITH ANGLE ADAPTORS WITH CLAMP OR EQUIVALENT.



SLED CONDUIT AND EQUIPMENT LAYOUT

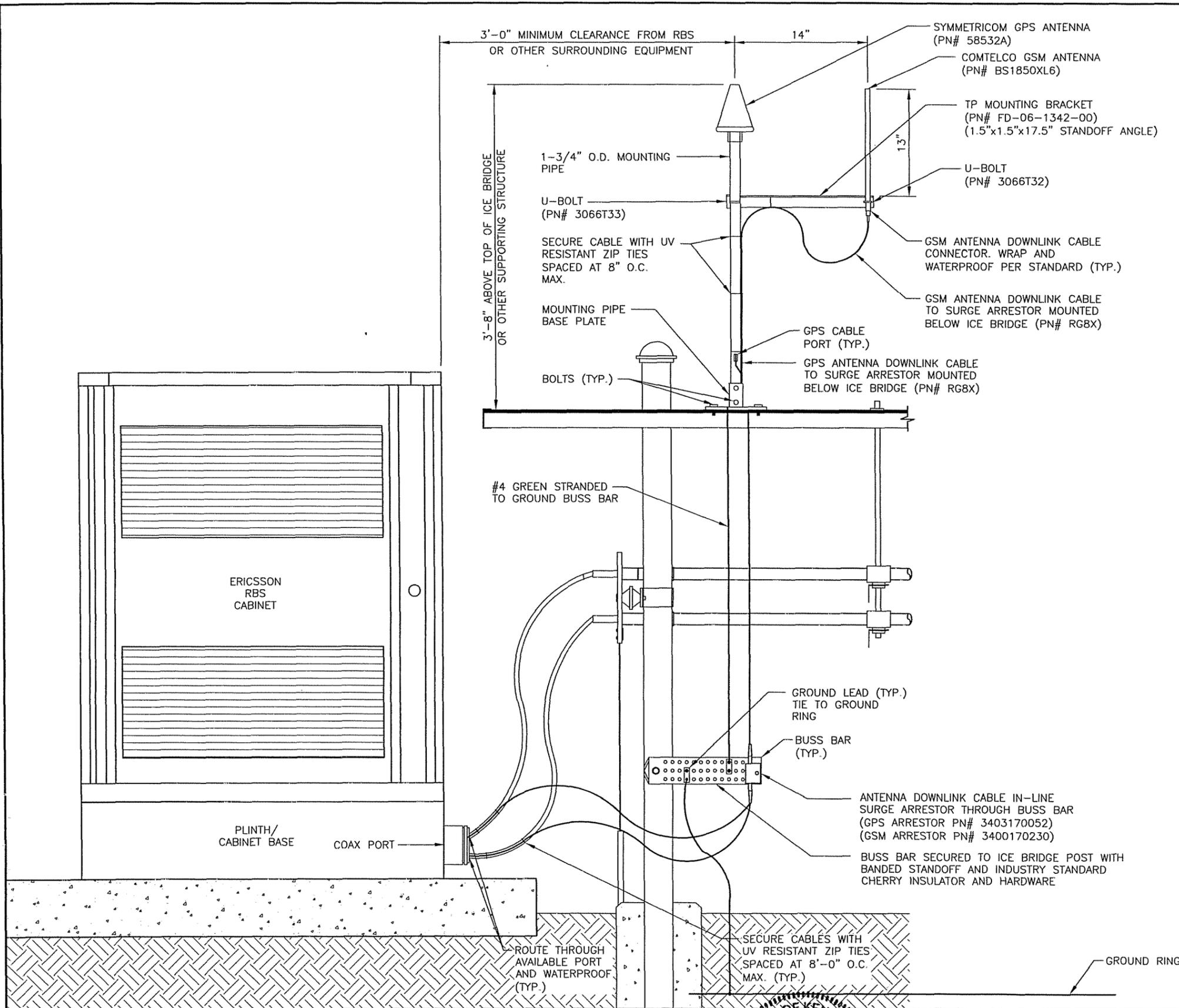


DRAWN BY: J.E. STEGER DATE: 12/07/05
 CHECKED BY: T.L. HARDY DATE: 12/07/05
 APPROVED BY: [Signature] DATE: 1/16/06

HARDY ENGINEERING, INC.
 ENGINEERING AND CONSULTING
 209 LINDEN STREET
 TRUSSVILLE, AL 35173
 PHONE: (205) 655-1427 FAX: (205) 661-9027

DWG NAME: SLED CONDUIT & EQUIPMENT LAYOUT
 STANDARD DRAWING FOR T-MOBILE LOUISVILLE, KENTUCKY
 DWG No: LV0463_C4 SCALE: NONE DWG No: C4

ITEM	REVISIONS	BY	CHK. BY	DATE



INSTALLATION NOTES:

1. ALL MATERIALS TO COMPLETE THESE TASKS SHALL BE PROVIDED BY T-MOBILE.
2. INSTALL GPS AND DOWNLINK ANTENNAS PER DRAWING.
3. INSTALL SURGE ARRESTORS ON BUSS BAR LOCATED NEAR THE POWER/TELCO BOX ON THE SLED.
4. CONNECT GPS AND DOWNLINK ANTENNAS TO RESPECTIVE SURGE ARRESTORS USING THE R8X CABLES PROVIDED.
5. EXTEND THE R8X CABLES FROM SURGE ARRESTORS ALONG COAX JUMPER, THROUGH BOOT INTO THE CABINET AND THEN INTO THE TRANSPORT MODULE LEAVING COILED THREE (3) FOOT LONG PIG TAIL AT THE ENDS.
6. SECURE ENDS OF CABLES WITH TAPE PROVIDED.
7. LABEL BOTH ENDS OF EACH PIECE OF THE R8X CABLE USED.
8. THE DOWNLINK LINE SHALL BE LABELED WITH A SINGLE YELLOW BAND WHILE THE GPS LINE SHALL HAVE TWO BANDS.
9. ENSURE THAT THE CABLES ARE ROUTED AND WEATHERPROOFED IN A PROFESSIONAL MANNER AND ARE ADEQUATELY SUPPORTED.
10. ALL WEATHERPROOFING AND GROUNDING SHALL BE DONE ACCORDING TO ESTABLISHED T-MOBILE SPECIFICATIONS AND PRACTICES.

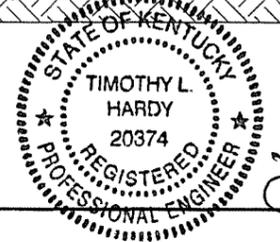
GROUNDING NOTES:

1. MATERIALS TO BE PROVIDED BY CONTRACTOR.
2. USE #12 STRANDED CABLE (GREEN).
3. CONNECT CABLE TO MAIN GROUND BAR IN CABINET.
4. ROUTE CABLE INTO TRANSPORT MODULE.
5. LEAVE COILED THREE (3) FOOT PIG TAIL ON CABLE INSIDE TRANSPORT MODULE.
6. CABLE SHALL BE ROUTED AND SUPPORTED IN SUCH A MANNER THAT IT DOES NOT IMPEDE ACCESS TO OTHER ELEMENTS OF THE CABINET.

NOTE:

1. ADDITIONAL WEIGHT FROM GSM ANTENNA AND MOUNTING BRACKET IS APPROX. 3 LBS.

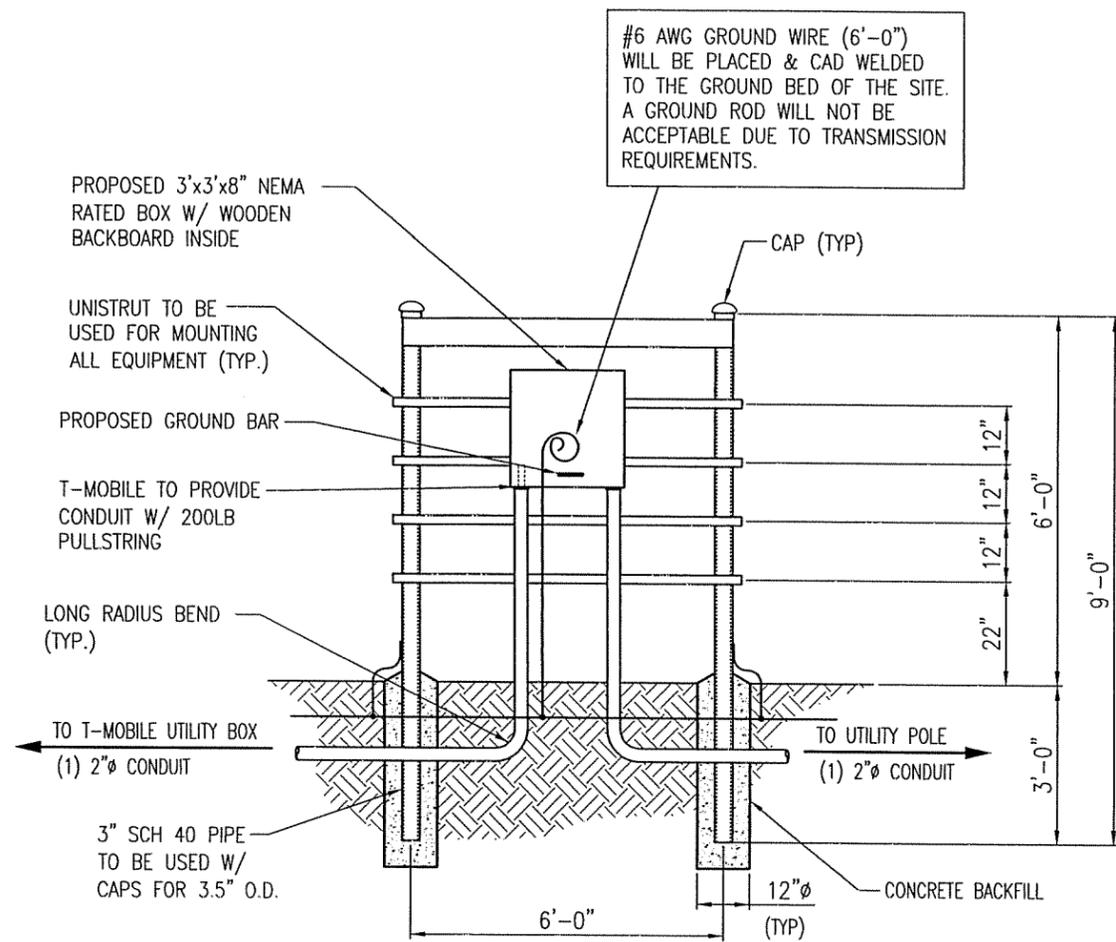
ITEM	REVISIONS	BY	CHK. BY	DATE



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APPROVED BY:	<i>[Signature]</i>	DATE:	1/12/06

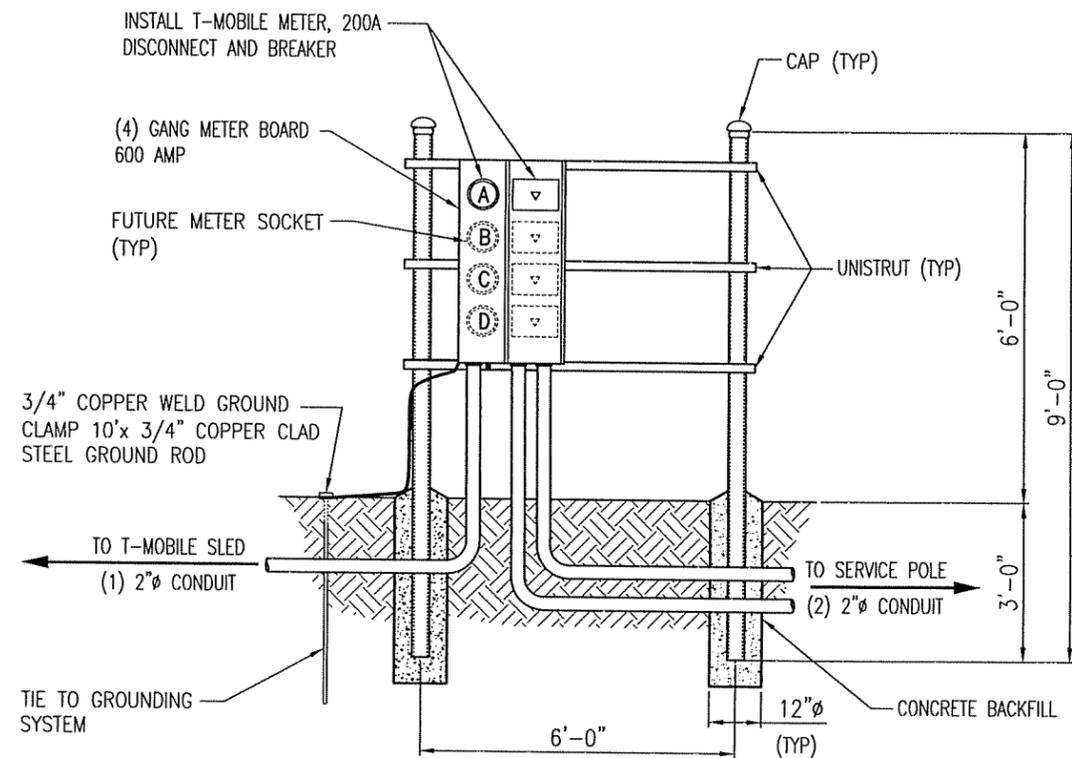
HARDY ENGINEERING, INC.
 ENGINEERING AND CONSULTING
 209 LINDEN STREET, P.O. BOX 708
 TRUSSVILLE, AL 35173
 PHONE: (205) 655-1427 FAX: (205) 661-9027

DWG. NAME: GPS AND GSM ANTENNA DETAILS AND NOTES	
STANDARD DRAWING FOR T-MOBILE LOUISVILLE, KENTUCKY	
CAD No: LV0463_C5	SCALE: NOT TO SCALE
DWG. No: C5	



PROPOSED POWER/TELCO "H" FRAME

SCALE: N.T.S.



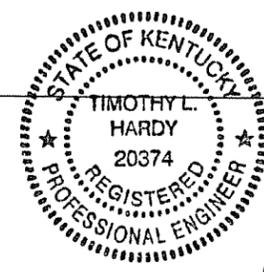
MULTI-TENANT RACK (POWER)

(TYPICAL ELEVATION)

(FACING TOWARDS FENCE)

(SCALE: 1" = 4'-0")

#6 AWG GROUND WIRE (6'-0") WILL BE PLACED & CAD WELDED TO THE GROUND BED OF THE SITE. A GROUND ROD WILL NOT BE ACCEPTABLE DUE TO TRANSMISSION REQUIREMENTS.

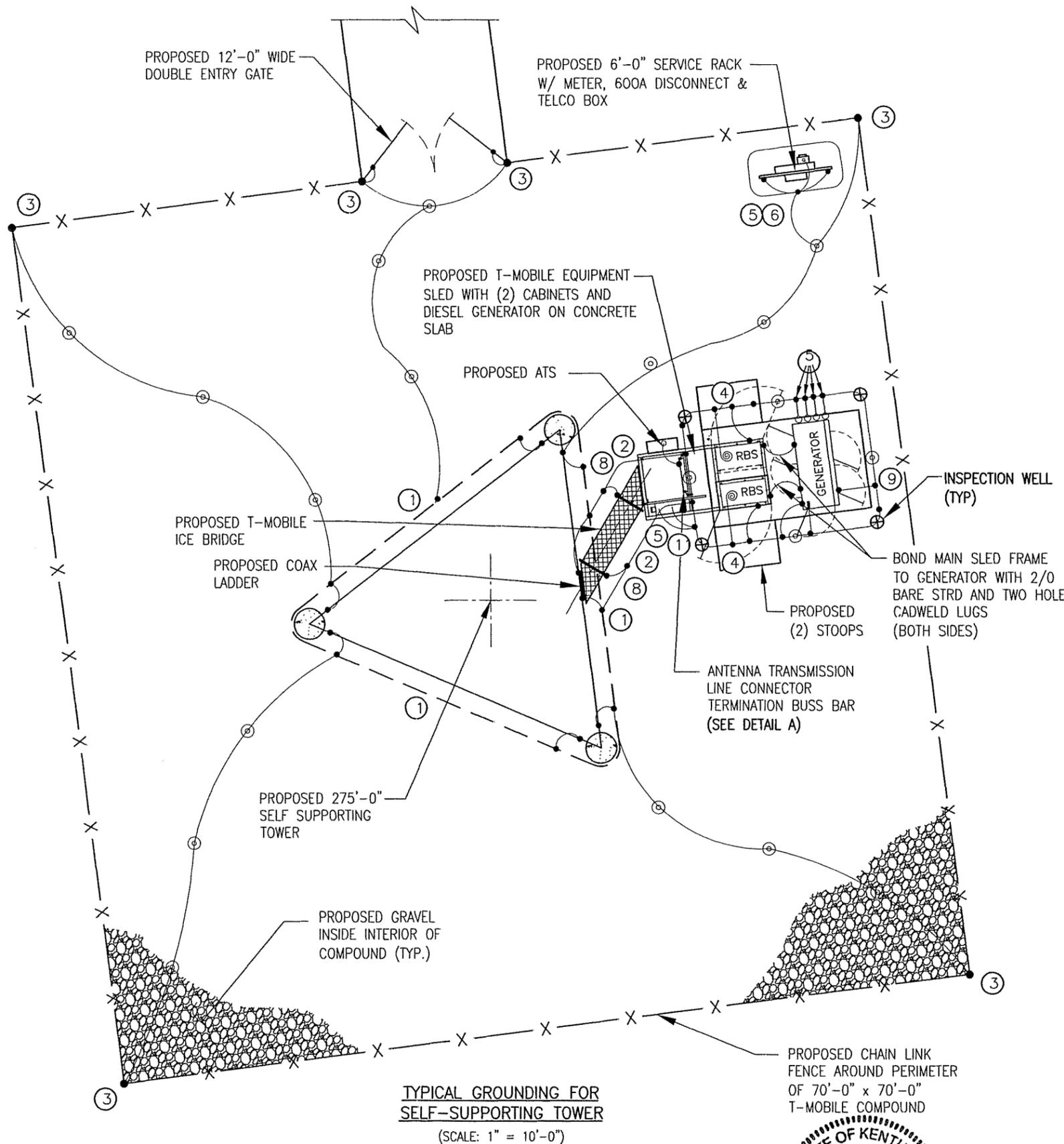


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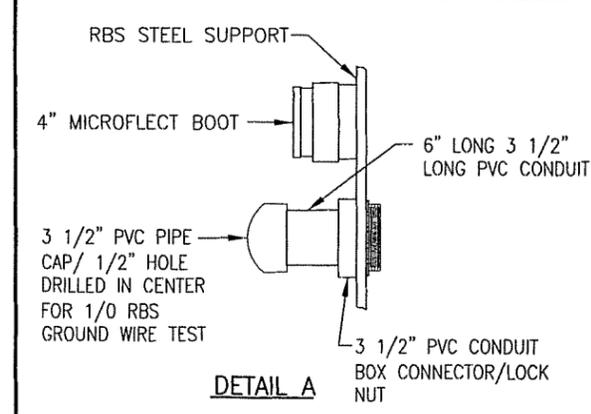
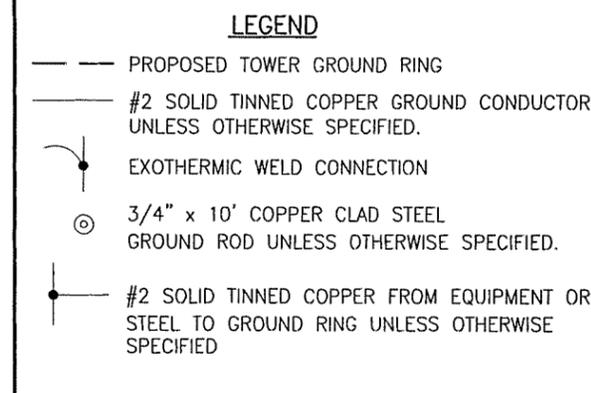
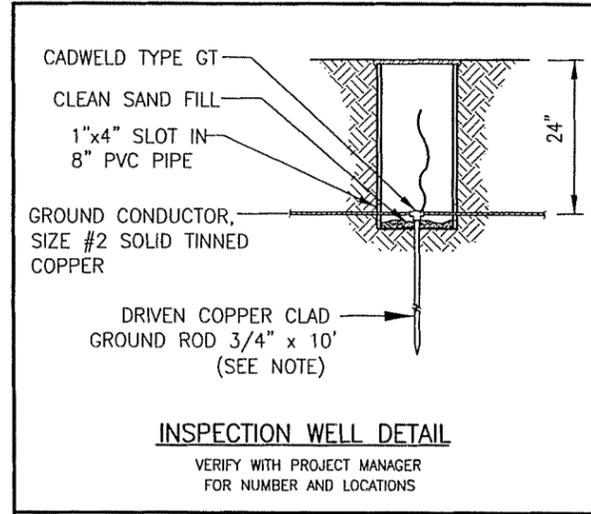
DWG. NAME: **ELECTRICAL DETAILS**
 LV0463 SITE: SEBREE
 SEBREE, KENTUCKY
 FOR T-MOBILE
 LOUISVILLE, KENTUCKY
 DWG. No: LV0463_C5.5 SCALE: 1"=10'-0" DWG. No: C5.5

ITEM	REVISIONS	BY	CHK. BY	DATE



NOTE: CONTRACTOR TO VERIFY ALL PROPOSED UTILITIES BEFORE DIGGING

PORTIONS OF SITE LAYOUT HAVE BEEN REMOVED FOR CLARITY. REFER TO SHEET C1 FOR COMPLETE SITE LAYOUT.

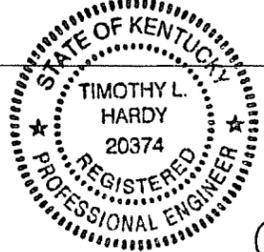


- CALL-OUT NOTES:**
- ① PROPOSED TOWER STRUCTURE GROUND RING.
 - ② CONNECT PROPOSED TOWER RING GROUND TO EQUIPMENT RING GROUND ON BOTH SIDES. KEEP INTERCONNECTING WIRING OF EQUAL LENGTH AND TYPE.
 - ③ FENCE GROUND
 - ④ RBS GROUND, TYP. 4 PLACES, MAIN RBS AND FUTURE. USE 1/0 STRAND COPPER TYPE THHN WIRE TO CONNECT RBS TO EXTERNAL GROUND RING. REMOVE INSULATION BELOW GRADE.
 - ⑤ ELECTRICAL AND TELCO CONDUIT CADWELD CONNECTIONS TO EXTERNAL GROUND RING MADE ABOVE GROUND TO VERTICAL RISER (BOTH ENDS). REMOVE ZINC PLATING BEFORE CADWELD CONNECTION IS MADE.
 - ⑥ NEUTRAL - GROUND BOND AT SERVICE DISCONNECT.
 - ⑦ MINIMUM SPACING OF SLED GROUNDING FROM SLED FOUNDATION, 24 INCHES MIN.
 - ⑧ ICE BRIDGE POST GROUND, EACH POST (TYP.)
 - ⑨ REMOVE PAINT FROM SURFACE OF GENERATOR FRAME BEFORE ATTACHING GROUND CONNECTION. USE DE-OX COMPOUND BETWEEN FRAME AND LUG. AFTER TIGHTENING CONNECTION COVER AREA WITH SPRAY ZINC OR COLD GALVANIZING COMPOUND.
 - ⑩ N/A
 - ⑪ TWO GROUND LEADS FROM POWER/TELCO DIRECT CADWELD TO GROUND RING

- GENERAL NOTES:**
1. GROUND RING TO EARTH SHALL BE 5 OHMS OR LESS. ADDITIONAL GROUND RODS MAY HAVE TO BE ADDED TO THE INITIAL 3/4"x10' RODS. USE TEMPORARY BOLTED CONNECTION TO ROD AND PERFORM GROUND RESISTANCE TEST.
 2. ALL GROUNDING CONDUCTOR SWEEPS SHALL BE SMOOTH WITH NO SHARP BENDS (8" MIN BEND RADIUS). SWEEPS SHALL BE CADWELDED TO GROUND RING WITH PARALLEL CADWELD.
 3. ALL CADWELDS TO BURIED GROUND RING SHALL BE OF PARALLEL TYPE. NO "TEE" CONNECTIONS TO BE USED.
 4. USE DE-OX OR NOALOX COMPOUND BETWEEN ALL GROUNDING LUG CONNECTIONS. DO NOT COVER LUGS OR HARDWARE WITH COMPOUND.
 5. ALL MOUNTING & CONNECTING HARDWARE FOR GROUNDING TO BE STAINLESS STEEL ONLY, NO PLATED OR GALVANIZED HARDWARE IS TO BE USED.
 6. GROUNDING CONDUCTORS TO BE BURIED A MINIMUM OF 30" DEEP UNLESS OTHERWISE SPECIFIED BY LOCAL CODE.
 7. ALL GROUNDING CONDUCTORS TO BE BARE STRANDED, SOFT DRAWN COPPER UNLESS OTHERWISE SPECIFIED.
 8. USE ONLY 2-HOLE CADWELD LUGS ON ENDS OF GROUNDING CONDUCTORS. DO NOT USE COMPRESSION OR MECHANICAL TYPE LUGS.

TYPICAL GROUNDING FOR SELF-SUPPORTING TOWER
(SCALE: 1" = 10'-0")

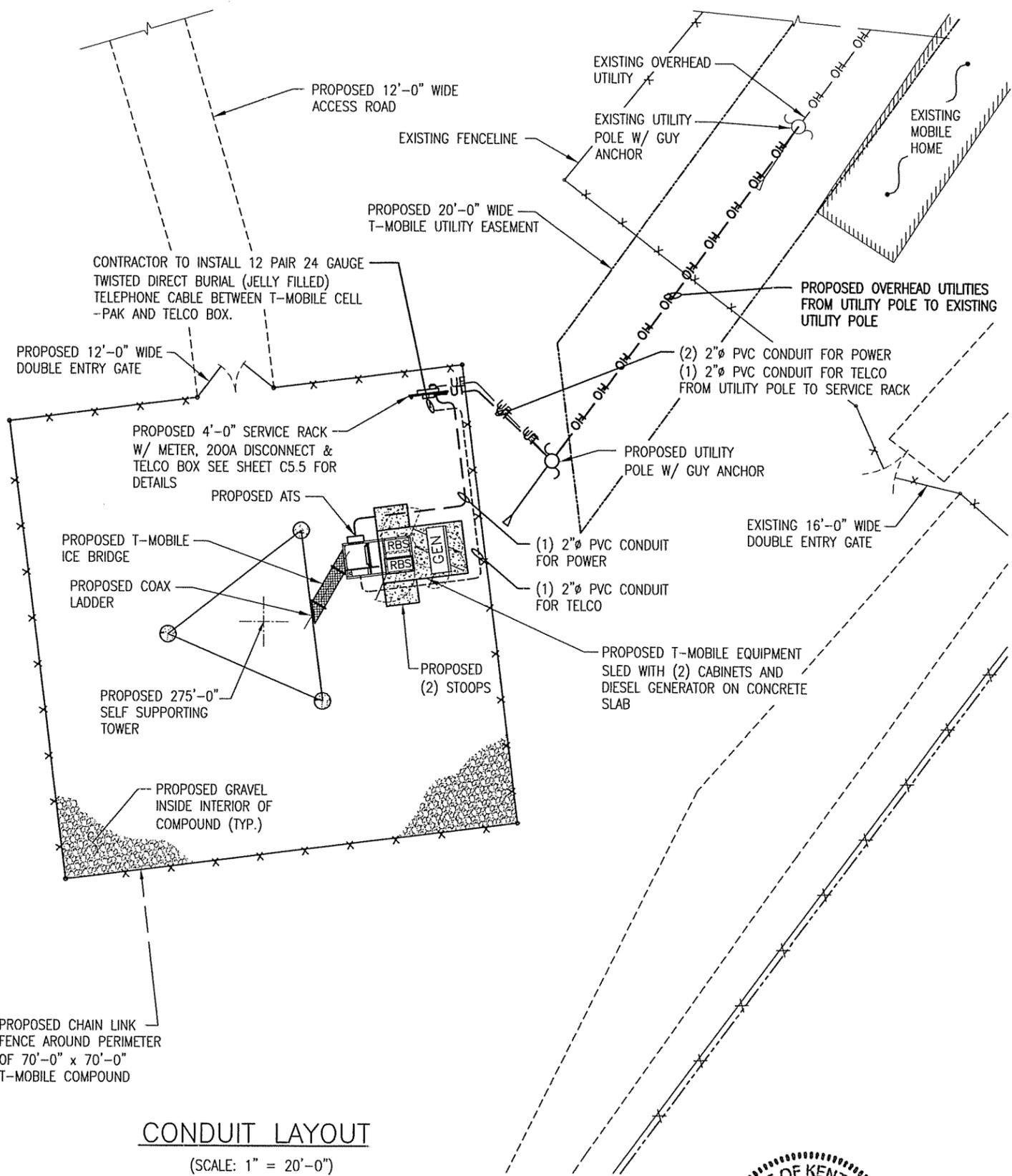
ITEM	REVISIONS	BY	CHK. BY	DATE



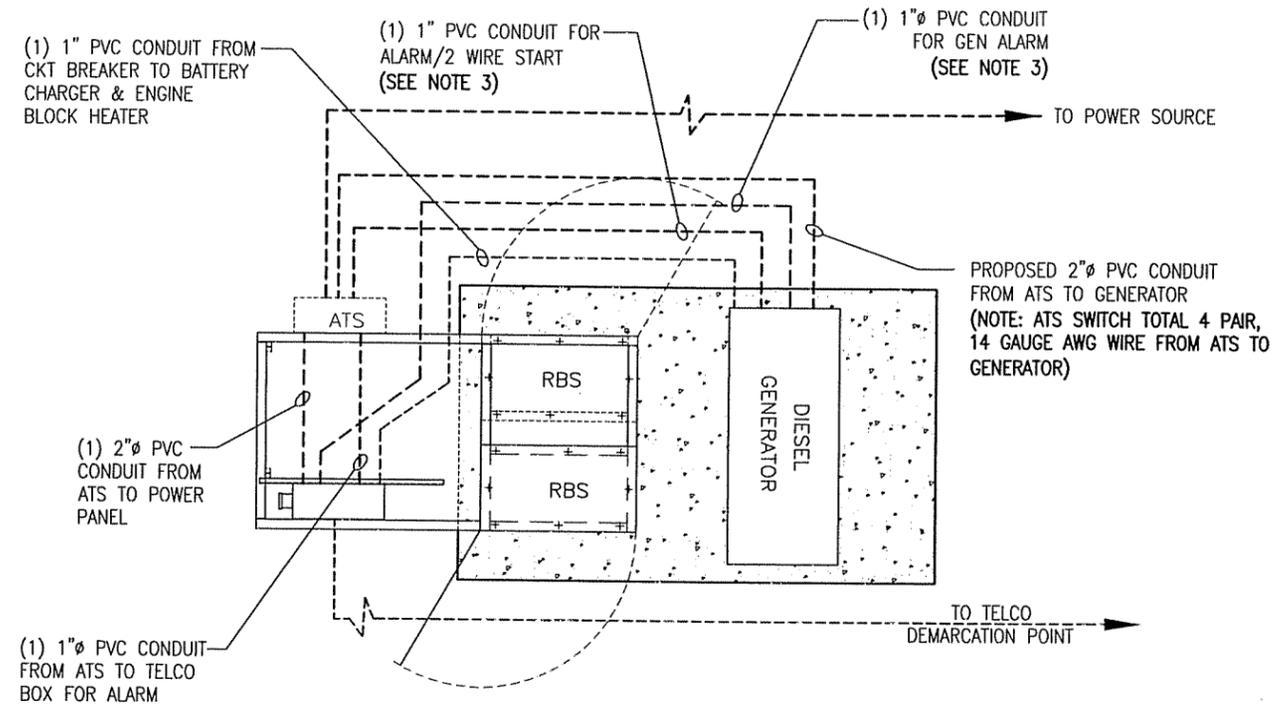
DRAWN BY: J.E. STEGER 12/08/05
 CHECKED BY: T.L. HARDY 12/08/05
 APPROVED BY: [Signature] 1/10/06

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 ENGINEERING AND CONSULTING
 209 LINDEN STREET
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DWG. NAME: **GROUNDING LAYOUT**
 LV0463A SITE: SEBREE
 SEBREE, KENTUCKY
 FOR
 T-MOBILE
 LOUISVILLE, KENTUCKY
 DWG. No: LV0463_C6
 SCALE: AS SHOWN
 DWG. No: C6



CONDUIT LAYOUT
(SCALE: 1" = 20'-0")



DETAIL 1
DIESEL SLED CONDUIT DETAIL
(SCALE: 1" = 5'-0")

NOTE: CONTRACTOR TO VERIFY ALL EXISTING UTILITIES BEFORE DIGGING

NOTE:
BOUNDARY AND EXISTING SITE FEATURES ARE BASED ON FIELD MEASUREMENTS. CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY DISCREPANCIES BETWEEN ACTUAL FIELD CONDITIONS AND THIS DRAWING.

LEGEND	
-----	1" PVC CONDUIT
-----	2" PVC CONDUIT-TELCO
-----	2" PVC CONDUIT-POWER
-x-x-x-	CHAIN LINK FENCE

ITEM	REVISIONS	BY	CHK. BY	DATE

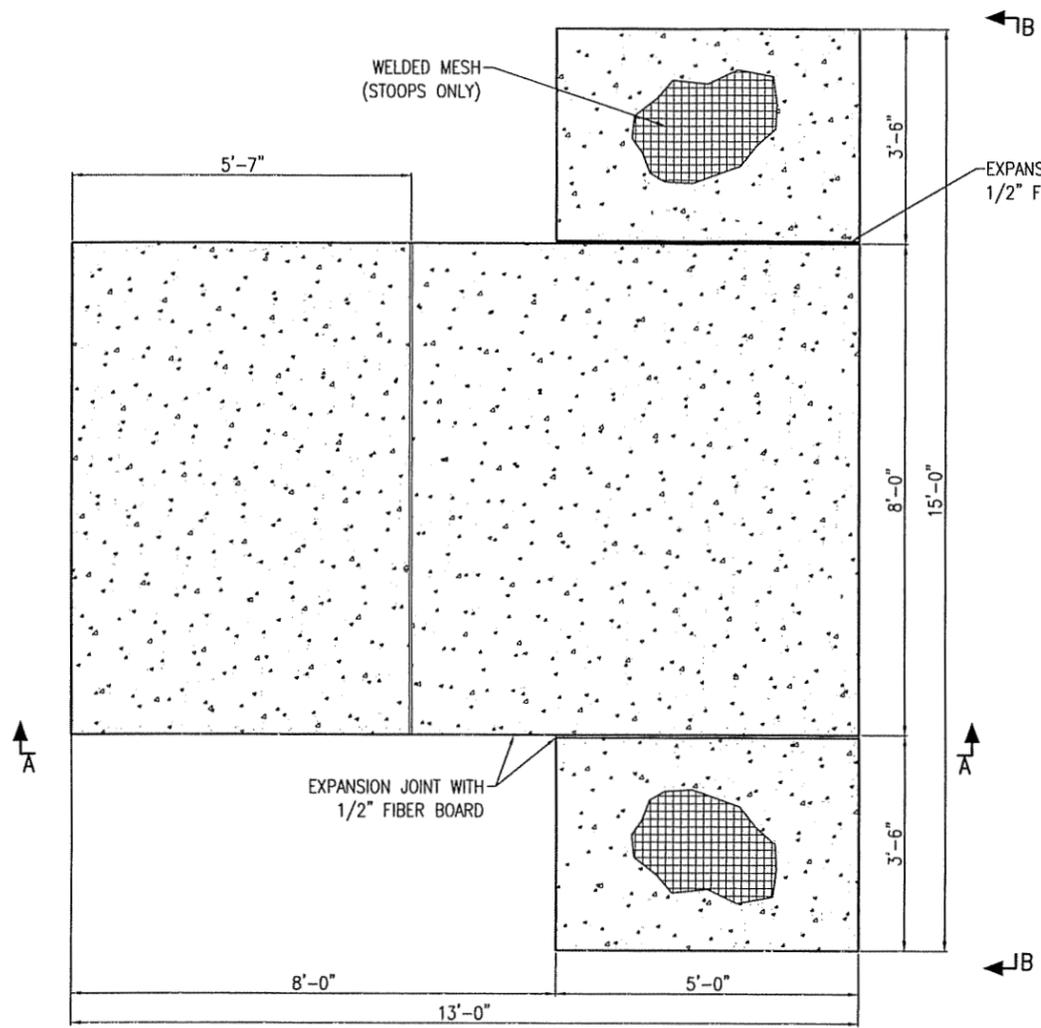


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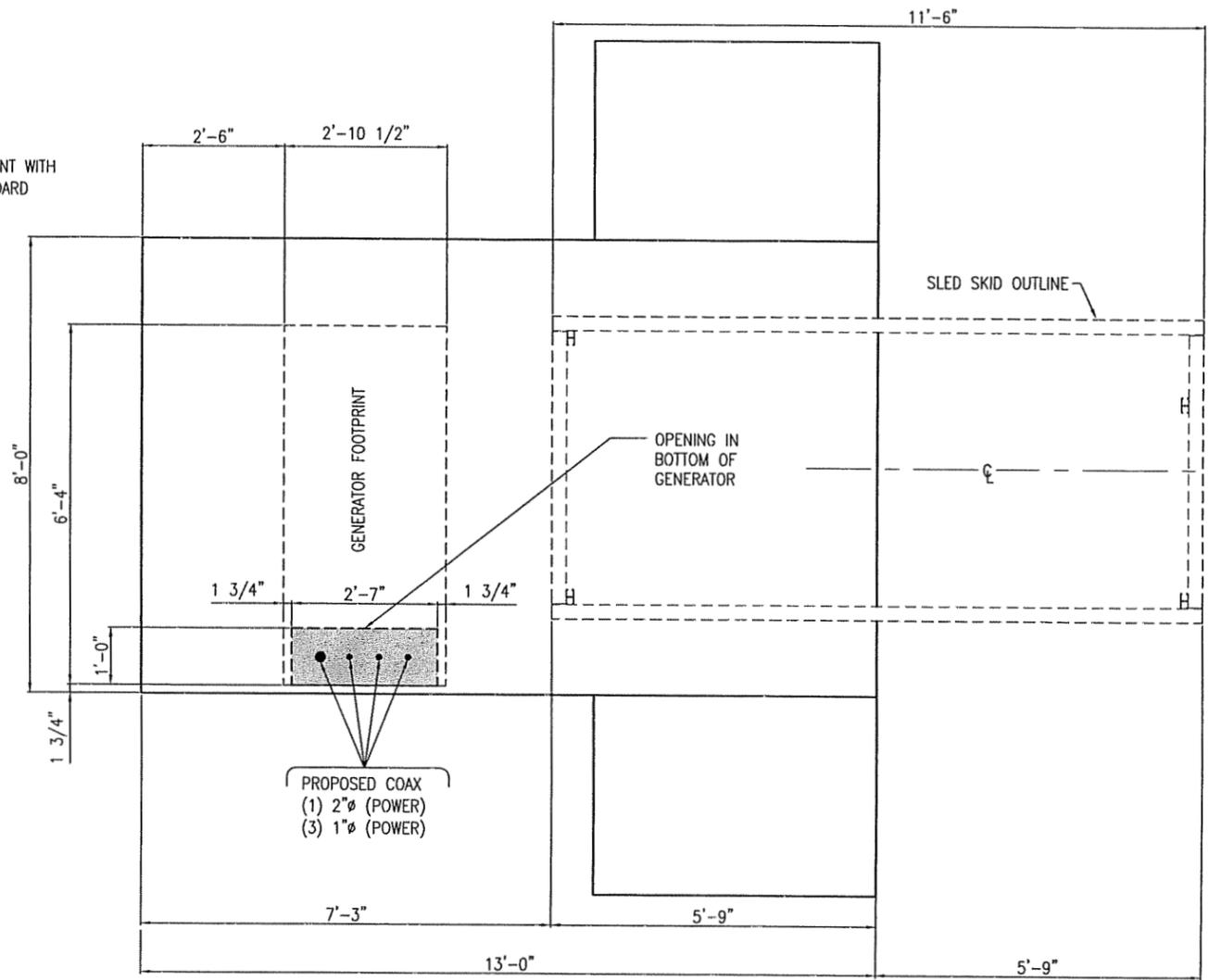
HARDY ENGINEERING, INC.
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 209 LINDEN STREET, P.O. BOX 708
 TRUSSVILLE, AL 35173
 PHONE: (205) 655-1427 FAX: (205) 661-9027

DWG NAME: **ELECTRICAL CONDUIT LAYOUT**
 LV0463A SITE: SEBREE
 SEBREE, KENTUCKY
 FOR T-MOBILE
 LOUISVILLE, KENTUCKY
 CAD No: LV0463_C7 SCALE: AS SHOWN DWG No: C7

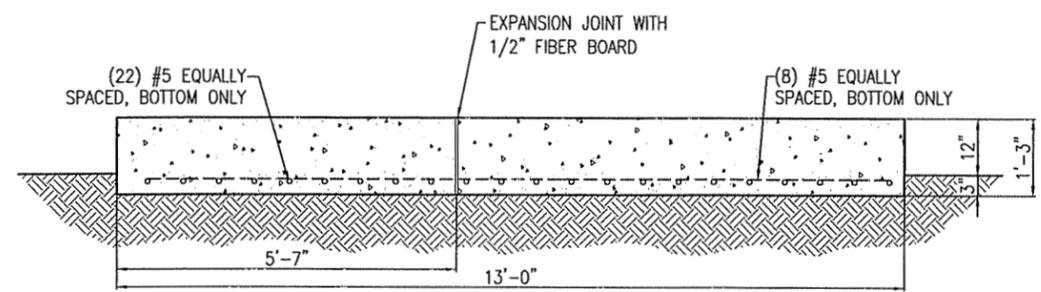
- NOTES:**
1. CONCRETE SLAB AND STOOPS TO BE POURED AT SAME TIME AND AT SAME ELEVATION.
 2. PROVIDE (3) EXPANSION JOINTS AS SHOWN.
 3. REINFORCEMENT FOR STOOPS TO BE (2) LAYERS OF WELDED WIRE MESH. (TOP & BOTTOM).
 4. PROVIDE 3" COVER OVER ALL REINFORCEMENT.



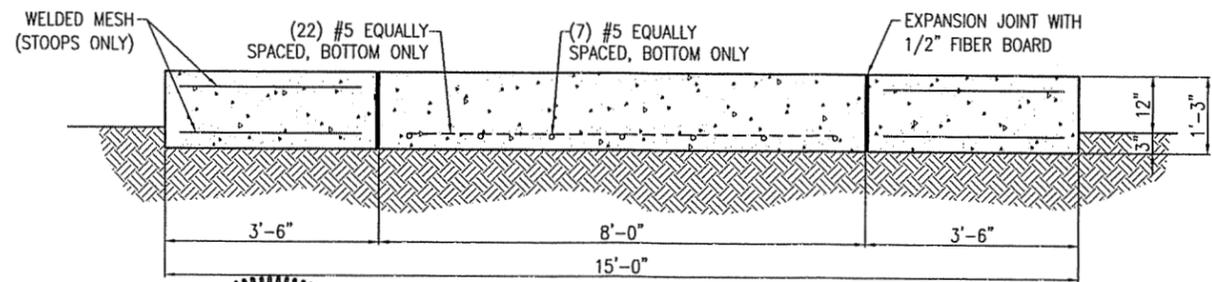
**PLAN VIEW
(CONCRETE SLAB AND STOOPS)**



**PLAN VIEW
(GENERATOR AND SLED SKID)**

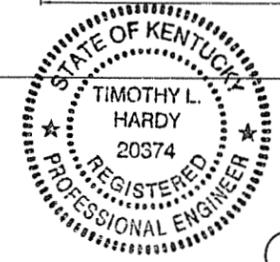


SECTION A-A



SECTION B-B

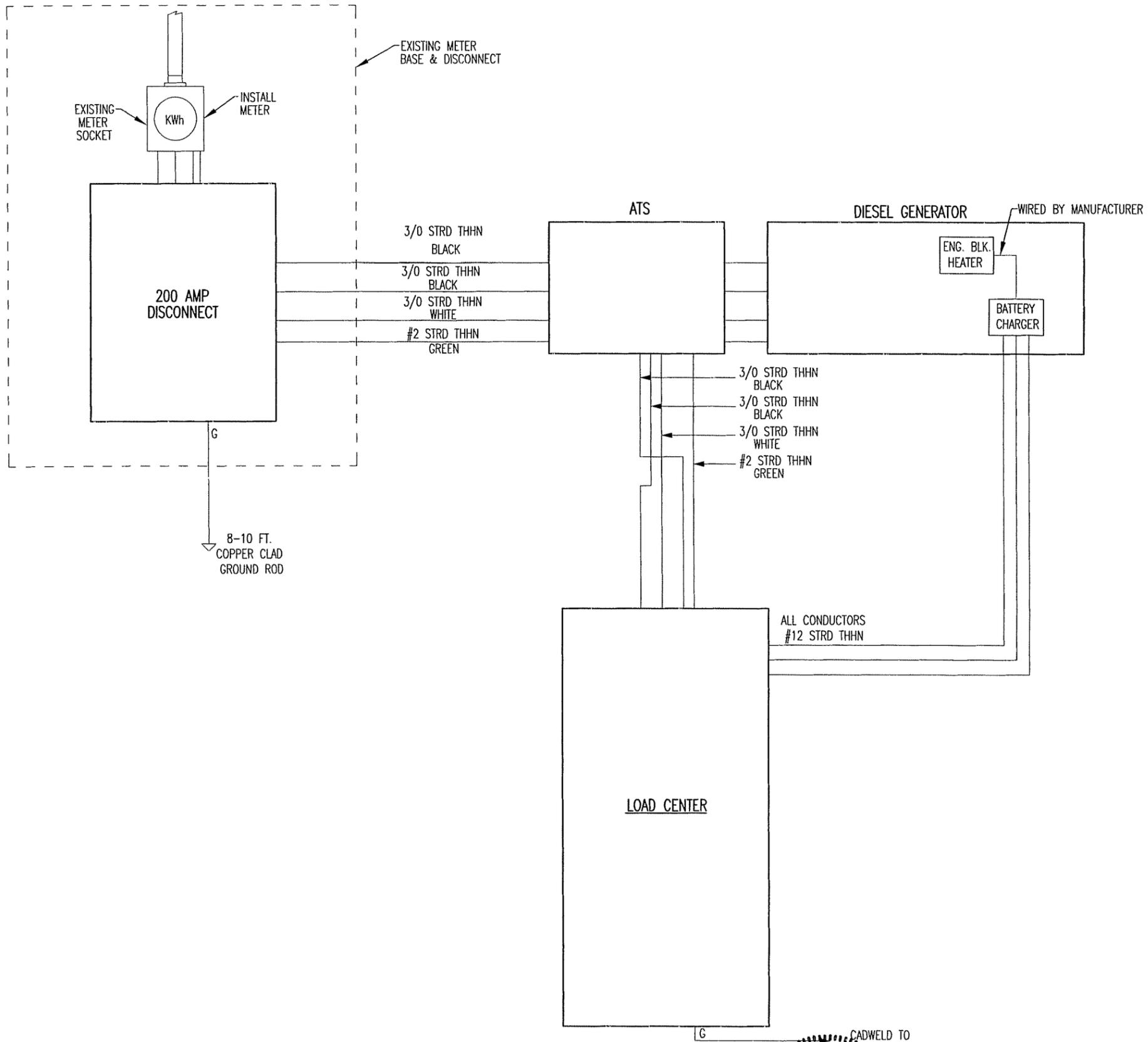
ITEM	REVISIONS	BY	CHK. BY	DATE



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DWG NAME: **SLED CONCRETE FOUNDATION DETAILS**
 STANDARD DRAWING FOR T-MOBILE LOUISVILLE, KENTUCKY
 CAD No: LV0463_C8 SCALE: NONE DWG No: C8



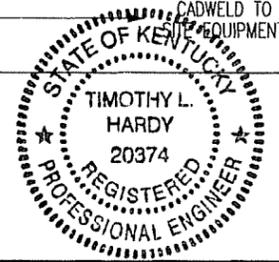
NOTE 1: WHEN INSTALLING TVSS UNIT, USE 3" LONG 1-1/4" CLOSE NIPPLE. USE LOWEST MOST BREAKER POSITIONS FOR 2P-60A BREAKER AND KEEP ALL WIRING TO TVSS AS SHORT AND DIRECT AS POSSIBLE. NO SHARP WIRING BENDS.

NOTE 2: ALL FLEXIBLE OR SEALTITE CONDUITS ARE TO BE METALLIC TYPE ONLY.

NOTE 3: ALL ELECTRICAL NEUTRAL AND GROUNDING CONDUCTORS ARE TO BE SAME SIZE AS CURRENT CARRYING CONDUCTORS.

NOTE 4: USE A GROUNDING BUSHING ON ALL CONDUITS THAT ENTER LOAD CENTERS, GENERATOR AND TELCO ENCLOSURE.

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HARDY ENGINEERING, INC.

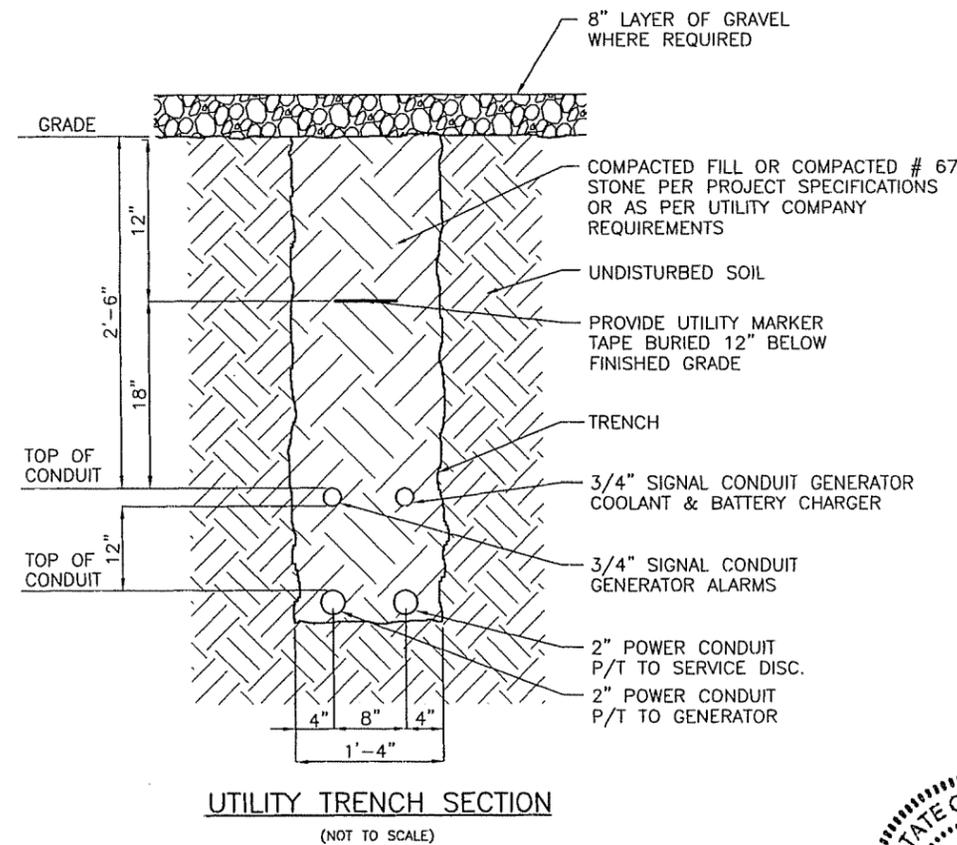
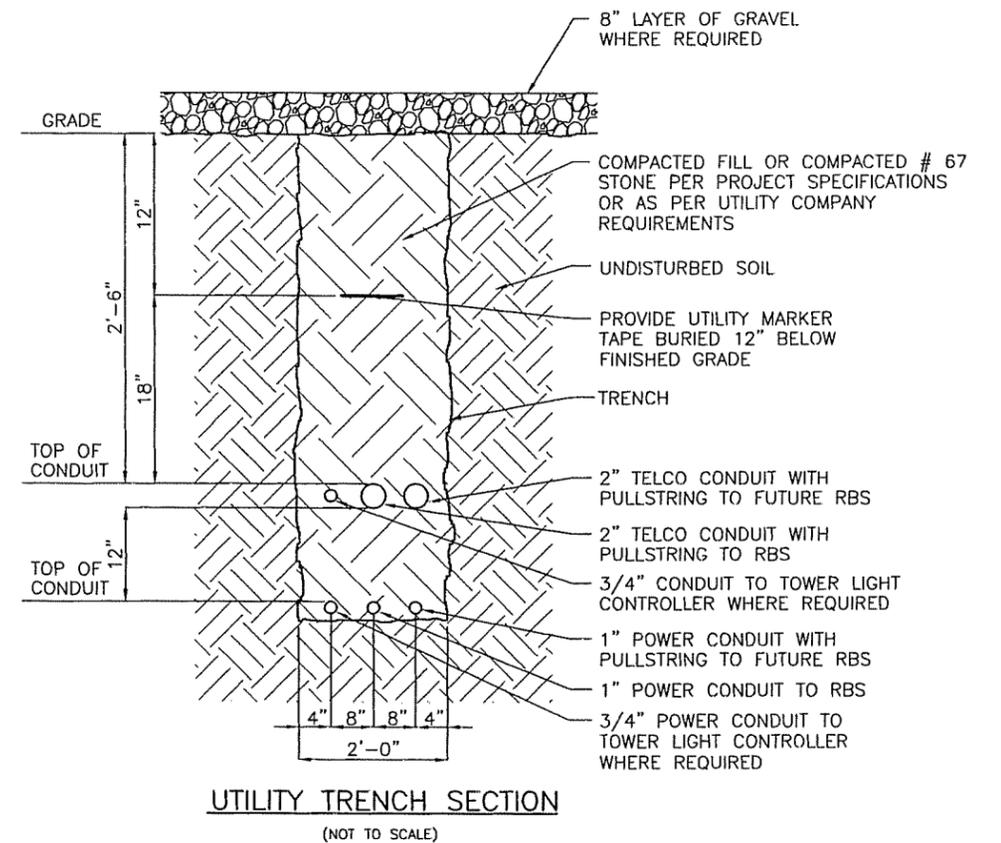
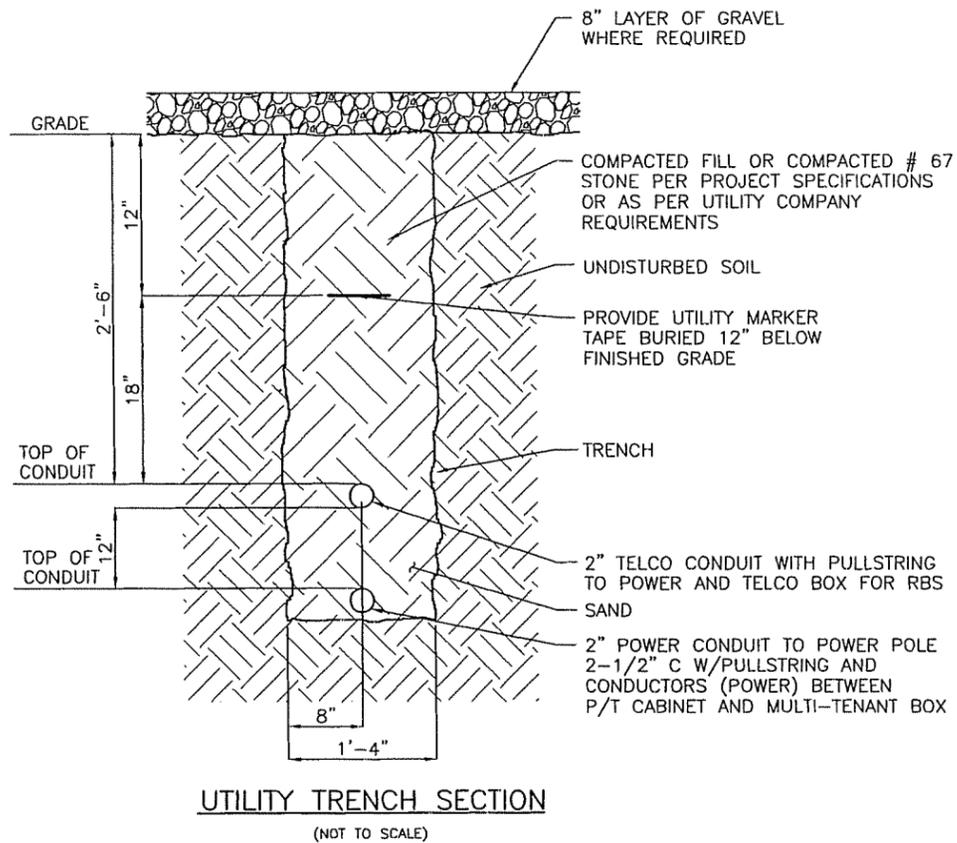
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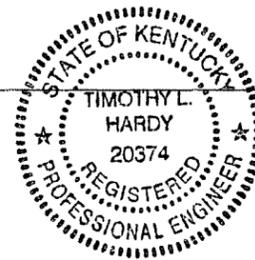
DWG. NAME: **WIRING DIAGRAM**

STANDARD DRAWING
FOR
T-MOBILE
LOUISVILLE, KENTUCKY

CAD No: LV0463_C9 SCALE: NOT TO SCALE DWG. No: C9



NOTE: ALL BACKFILL IN TRENCH TO BE MECHANICALLY COMPACTED IN LIFTS OF 6 INCHES.



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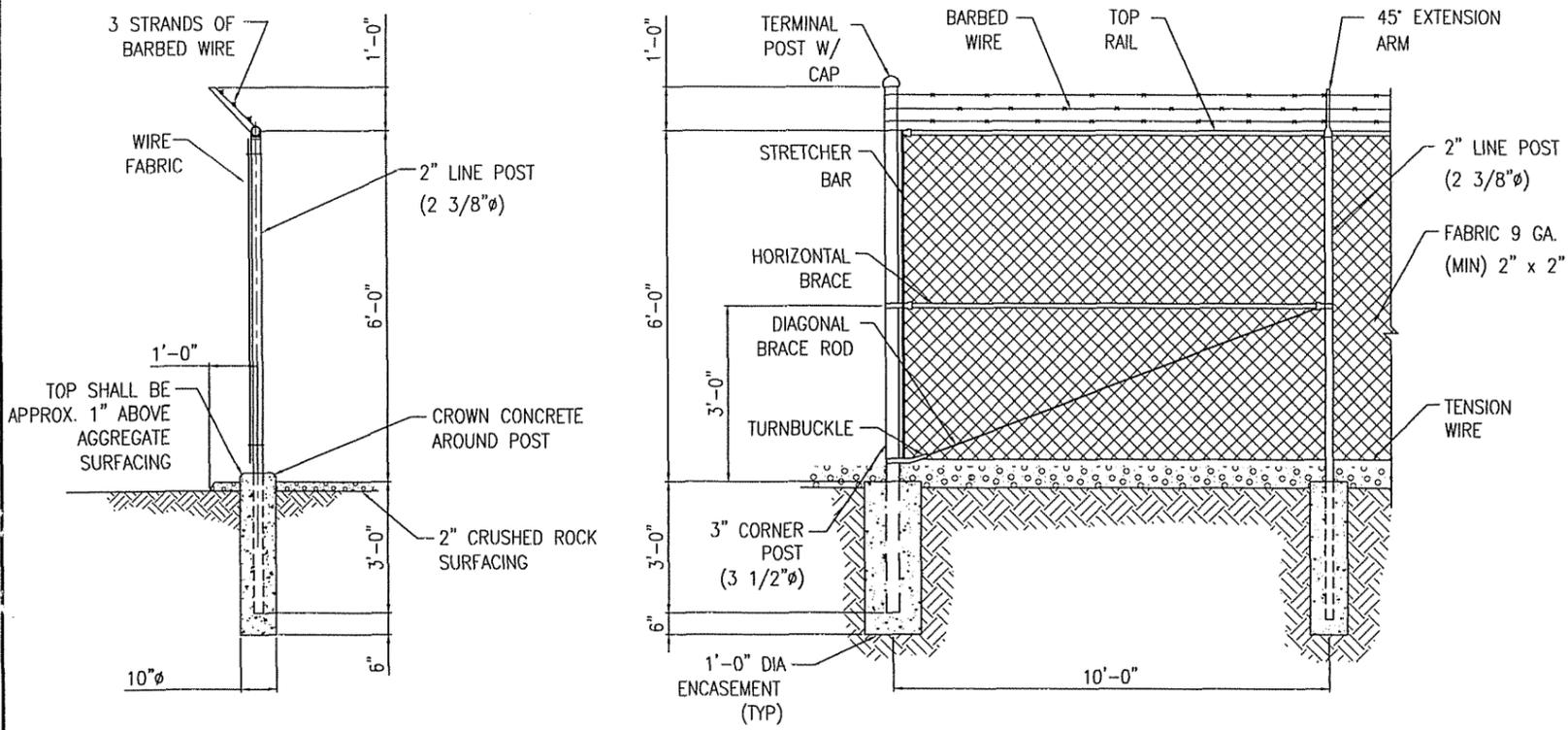
CHECKED BY: T.L. HARDY DATE: 12/07/05

APPROVED BY: [Signature] DATE: 11/16/10

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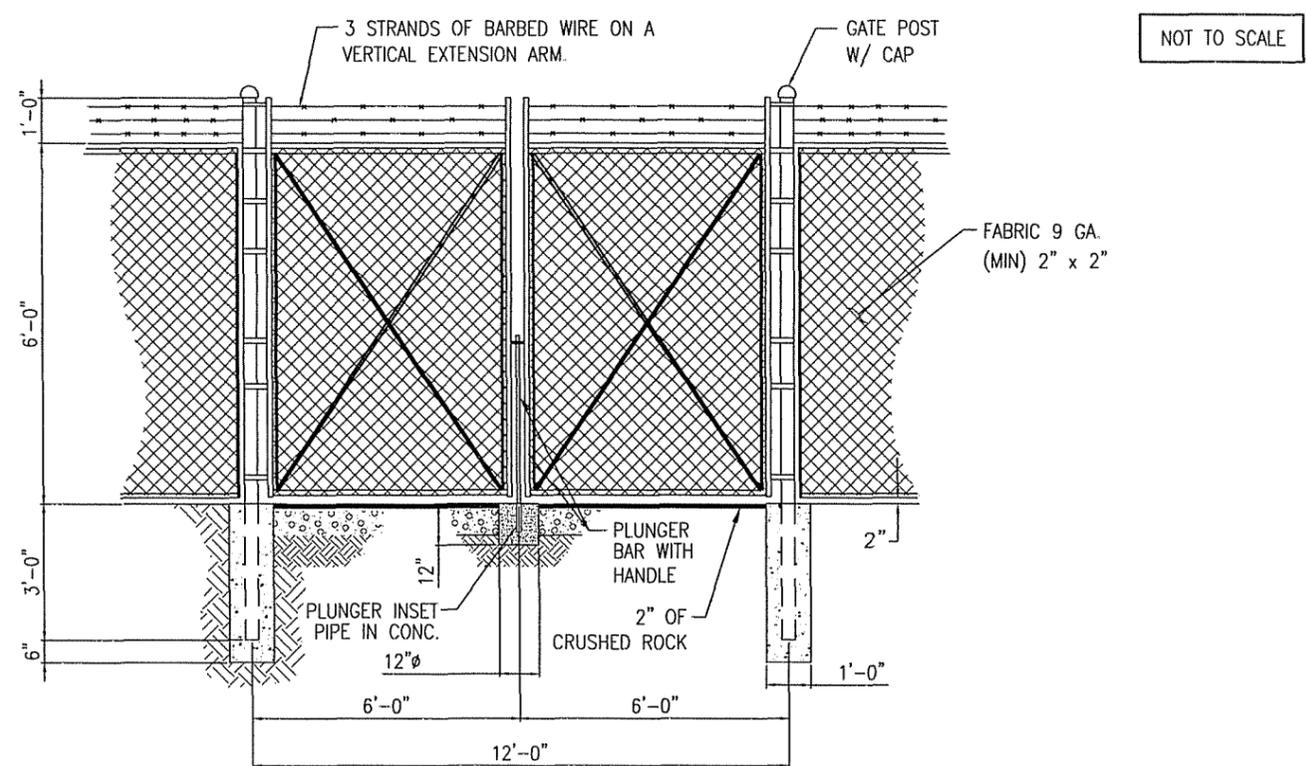
DWG NAME: **UTILITY TRENCH DETAIL**
STANDARD DRAWING
FOR
T-MOBILE
LOUISVILLE, KENTUCKY
CAD No: LV0463_C10 SCALE: NONE DWG No: C10

ITEM	REVISIONS	BY	CHK. BY	DATE



TYPICAL FENCE POST

TYPICAL CORNER POST DETAIL



12'-0" DOUBLE SWING GATE DETAIL

FENCE TYPE:

SHALL CONSIST OF GALVANIZED STEEL FRAMEWORK AND GALVANIZED STEEL FABRIC WITH A HEIGHT OF 6 FEET AND AN OVERALL HEIGHT OF 7 FEET FROM THE BOTTOM OF THE FABRIC TO THE TOP BARBED WIRE. THE FENCE SHALL HAVE A TOP RAIL, BOTTOM TENSION WIRE, AND THREE STRANDS OF BARBED WIRE MOUNTED ON VERTICAL EXTENSION ARMS. THE UPPER STRAND SHALL BE APPROXIMATELY 12 INCHES ABOVE THE TOP OF THE FABRIC. POSTS SHALL BE SET IN CONCRETE OR IN SLEEVES AS DETAILED.

MATERIALS:

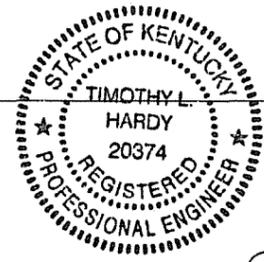
MATERIALS FOR CHAIN LINK FENCING SHALL BE AS FOLLOWS. ALL STEEL OR MALLEABLE IRON PARTS AND ACCESSORIES FOR FRAMEWORK SHALL BE HOT-DIP GALVANIZED IN ACCORDANCE WITH RESIDENTIAL STANDARDS:

FABRIC: RESIDENTIAL FABRIC 11-1/2 GAUGE, 2 1/4 INCH MESH; GALVANIZED ASTM A392, CLASS 2; TWISTED SELVAGE ON TOP, KNUCKLED SELVAGE ON BOTTOM.

COMMERCIAL POST: LINE POST ARE 2 INCH, SCH. 40, 2 1/2 O.D. PIPE
 TERMINAL POSTS(END, CORNER, AND PULL) ARE 2-1/2 INCH, SCH. 40, 2-7/8 INCH O.D. PIPE
 GATE POST(SWING POSTS) ARE GATE OR LEAF 6ft OR LESS, 2-1/2 INCH, SCH. 40, 2-7/8 INCH O.D. PIPE
 GATE OR LEAF OVER 6ft WIDE AND UP TO 13ft, 3-1/2 INCH, SCH. 40, 4 INCH O.D. PIPE
 TOP RAILS ARE 1-5/8 INCH OD (17 GAUGE) PIPE.

MATERIALS: RAIL COUPLINGS: SLEEVE TPE, 6 INCHES EXPANSION SPRING IN EVERY FIFTH COUPLING.
 BRACING: PIPE BRACE SAME AS TOP RAIL, WITH 3/8 INCH DIAMETER STEEL ROD TRUSS AND TIGHTENER
 POST TOPS: PRESSED STEEL, MALLEABLE IRON WITH PRESSED STEEL EXTENSION ARM, OR ONE-PIECE ALUMINUM CASTING; WITH HOLE FOR TOP RAIL, DESIGNED TO FIT OVER THE OUTSIDE OF THE POST AND TO PREVENT ENTRY OF MOISTURE INTO TUBULAR POST. CALIFORNIA REDWOOD HEARTWOOD, 2-3/8 BY 3/8 INCH BY LENGTH REQUIRED.
 BARBED WIRE: GALVANIZED, ASTM A121 CLASS 3; THREE 14 GAUGE MINIMUM STEEL WIRES WITH 4 POINT ROUND 14 GAUGE BARBS SPACED 4 INCHES APART.
 STRETCHER BARS: STEEL, 3/16 BY 3/4 INCH, OR EQUIVALENT CROSS-SECTIONAL AREA.
 FABRIC TIES: ALUMINUM BANDS AND WIRES.
 GATE FRAMES: 1-1/2 INCH, SCH. 40, 1-7/8 INCH OD PIPE.
 TENSION WIRE: GALVANIZED OR ALUMINUM COATED COIL SPRING WIRE, 7 GAUGE.

NOT TO SCALE

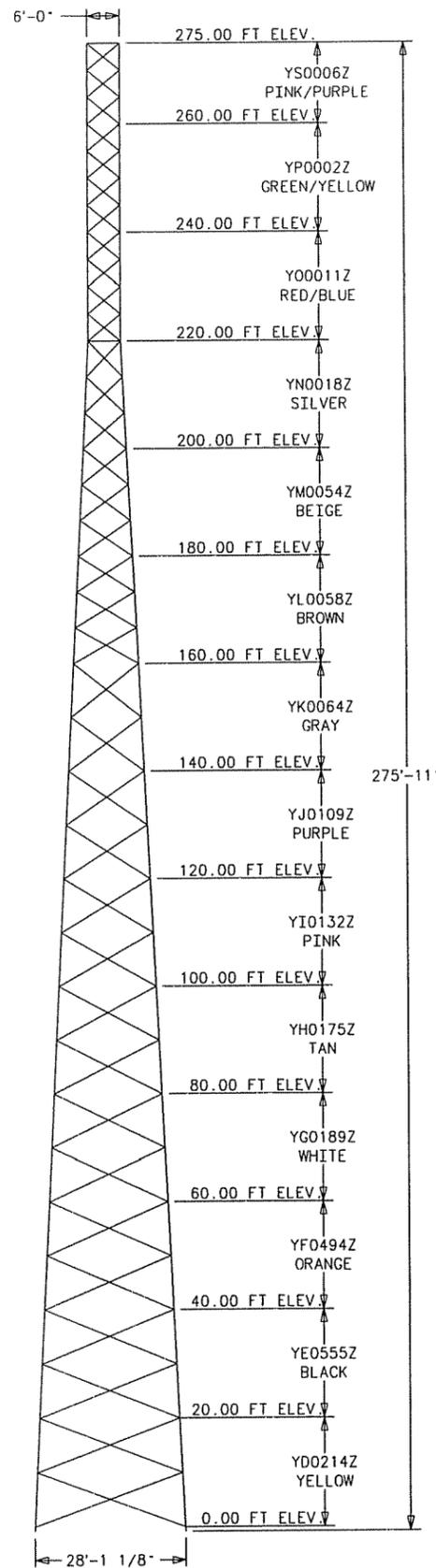


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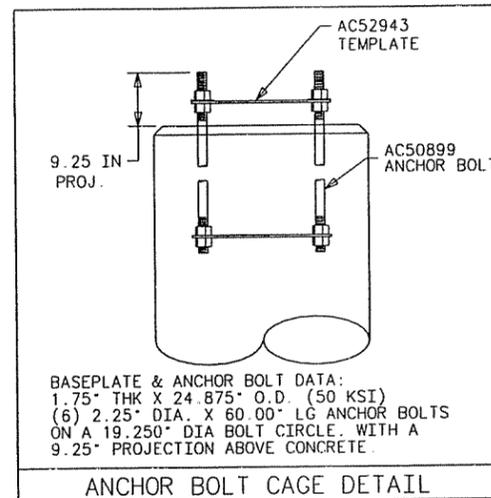
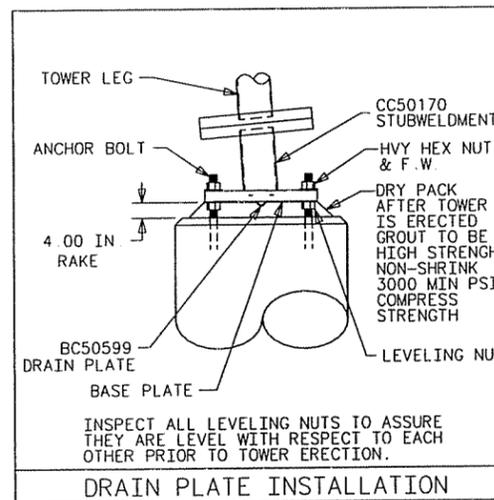
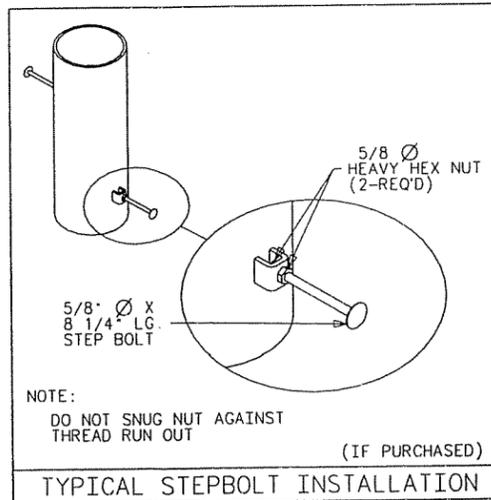
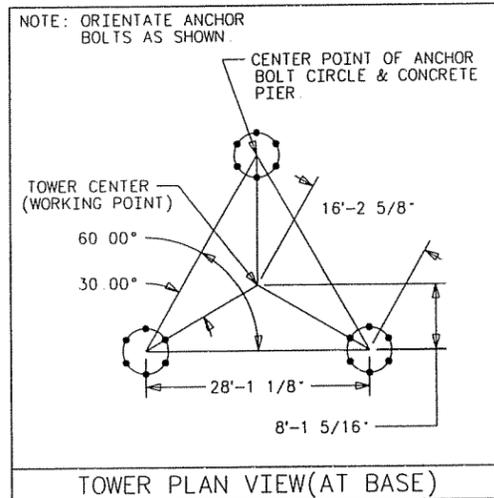
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DWG NAME:		FENCE DETAILS	
DWC No.:		LV0463_C11	
SCALE:		AS SHOWN	
DWC No.:		C11	



ELEVATION VIEW

NOTE: ALL ANTENNA TYPES AND MOUNTING ELEVATIONS ARE PER TABLE SHOWN AT RIGHT.



ANTENNA MOUNTING TABLE

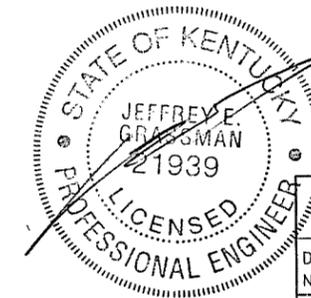
ANTENNA TYPE & MODEL NO.	SIZE (DECIMAL FEET)	FREQUENCY	QTY.	*MOUNTING HEIGHT (DECIMAL FEET)	MOUNTING AZIMUTH
PANEL ANTENNA (PCS-A-065-18)	N/A	N/A	12	274	N/A
WIRELESS ANTENNA MOUNTING FRAME	13	N/A	3	274	N/A
PANEL ANTENNA (PCS-A-065-18)	N/A	N/A	12	265	N/A
WIRELESS ANTENNA MOUNTING FRAME	13	N/A	3	265	N/A
PANEL ANTENNA (PCS-A-065-18)	N/A	N/A	12	255	N/A
WIRELESS ANTENNA MOUNTING FRAME	13	N/A	3	255	N/A
PANEL ANTENNA (PCS-A-065-18)	N/A	N/A	12	245	N/A
WIRELESS ANTENNA MOUNTING FRAME	13	N/A	3	245	N/A
PANEL ANTENNA (PCS-A-065-18)	N/A	N/A	12	235	N/A
WIRELESS ANTENNA MOUNTING FRAME	13	N/A	3	235	N/A
PANEL ANTENNA (PCS-A-065-18)	N/A	N/A	12	225	N/A
WIRELESS ANTENNA MOUNTING FRAME	13	N/A	3	225	N/A

* = CENTERLINE OF ANTENNA , N/A = NOT AVAILABLE

NOTES:

- MAXIMUM DESIGN REACTIONS AT BASE:
SHEAR = 43.46 KIPS/LEG
VERTICAL DOWNWARD = 472.11 KIPS/LEG
VERTICAL UPWARD = 411.02 KIPS/LEG
- TOWER DESIGN CRITERIA: EIA/TIA - 222F
- THIS STRUCTURE HAS BEEN DESIGNED FOR THE FOLLOWING LOADING:
A. CASE 1 WIND = 75.0 MPH ICE = 0.00 IN
CASE 2 WIND = 65.0 MPH ICE = 0.50 IN
TWIST AND SWAY EVALUATION NOT REQUIRED
B. ANTENNA LOADING IS PER THE ANTENNA MOUNTING TABLE SHOWN BELOW
- FINISH: GALVANIZED PER ASTM A-123
- A325 HARDWARE PER ASTM A325-91C, EXCLUDE SECTIONS 6.3 AND 9.2 HARDWARE GALVANIZED PER ASTM A153
- COLOR CODE IDENTIFICATION:
A. HARDWARE KITS FOR EACH TOWER SECTION ARE PLACED IN BUCKETS & IDENTIFIED BY COLOR OF PAINT SHOWN ON LID OF BUCKET. SEE SCHEMATIC AT LEFT TO DETERMINE COLOR OF SECTION.
- ALL ASTM A325 BOLTS ARE TO BE TIGHTENED TO A SNUG TIGHT CONDITION. A SNUG TIGHT CONDITION IS DEFINED AS THE TIGHTNESS THAT EXISTS WHEN ALL PLIES IN A JOINT ARE IN CONTACT. THIS MAY BE ATTAINED BY A FEW IMPACTS OF AN IMPACT WRENCH OR THE FULL EFFORT OF A MAN USING AN ORDINARY SPUD WRENCH.
REF: SPECIFICATIONS FOR ASTM A325 OR A490 BOLTS, MANUAL OF STEEL CONSTRUCTION, ALLOWABLE STRESS DESIGN, AISC, 9TH EDITION, 1989, PAGE 5-273.
- SITE NAME = LV0463, SEBREE, KY

JAN 17 2006



EXPIRES ON

JUN 30 2007

PROJECT DRAWING INDEX

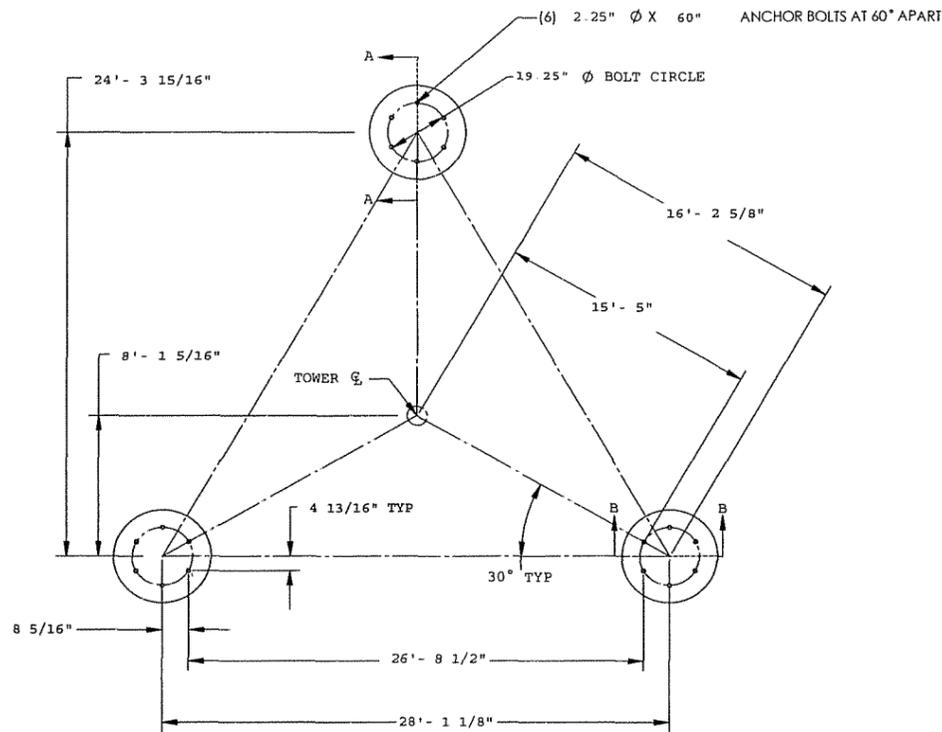
DRAWING NUMBER	DESCRIPTION	UNIT WT (LBS)	QTY PER STR
YD0214Z	SECTION-D 0'-20' --- YELLOW	8694	1
YE0555Z	SECTION-E 20'-40' --- BLACK	7554	1
YF0494Z	SECTION-F 40'-60' --- ORANGE	5586	1
YG0189Z	SECTION-G 60'-80' --- WHITE	5643	1
YH0175Z	SECTION-H 80'-100' --- TAN	5481	1
YI0132Z	SECTION-I 100'-120' --- PINK	4641	1
YJ0109Z	SECTION-J 120'-140' --- PURPLE	4383	1
YK0064Z	SECTION-K 140'-160' --- GRAY	2727	1
YL0058Z	SECTION-L 160'-180' --- BROWN	2955	1
YM0054Z	SECTION-M 180'-200' --- BEIGE	2019	1
YN0018Z	SECTION-N 200'-220' --- SILVER	2224	1
Y00011Z	SECTION-O 220'-240' --- RED/BLUE	1527	1
YP0002Z	SECTION-P 240'-260' --- GREEN/YELLOW	1078	1
YS0006Z	SECTION-S 260'-275' --- PINK/PURPLE	731	1
BC5019Z	BEACON MOUNT INSTALLATION	50	1
BC5167Z	E.I.A. GROUNDING KIT	36	1
BC5342Z	SAFETY-CLIMB CABLE INT. GUIDE ADAPTER	1	13
BC5344Z	SAFETY-CLIMB CABLE SYSTEM	96	1
CC5049Z	LIGHTNING ROD INSTALLATION	10	1
DC6593Z	STUB WELDMENT INSTALLATION KIT	911	1
A-107463	STEP-BOLT INSTALLATION	---	1
B-106614	SAFETY-CLIMB BOTTOM BRACKET	19	1
B-111475	ANTENNA MOUNTING FRAME	265	3
D-103936	12-RUN W/G LADDER INSTALLATION DRAWING	---	1

DUPLICATE DRAWING DISTRIBUTION

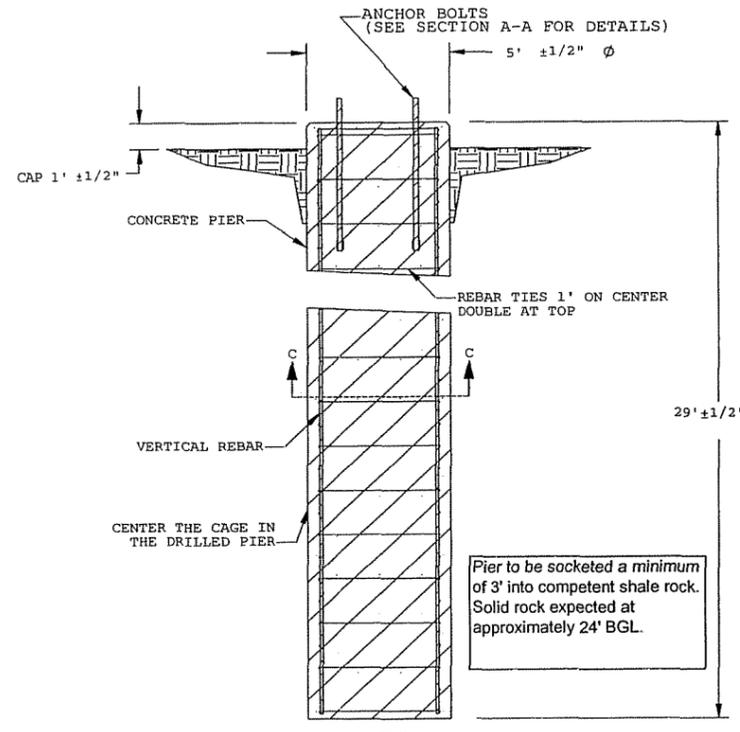
TEC PROJECT DRAWING INDEX MODULAR DESIGN

DWG SIZE D CLASS CODE (1) 4 CLASS NO. (3) 999

DRAWN RJS	ENGR	DATE 12/07/05	SCALE NONE
P.A. CHK		SHOP CHK SM	
OTHER SPECIFICATIONS			
MATERIAL	THICKNESS	WEIGHT	57.173#
REV ID	DATE	REV BY	CHK BY
REVISION DESCRIPTION			
ORDER NO. 18791-05	CUSTOMER T-MOBILE		DESCRIPTION SELF SUPPORTING STRUCTURE
DWG NO. DC52770			



FOUNDATION & ANCHOR BOLT LAYOUT PLAN
(NO SCALE)



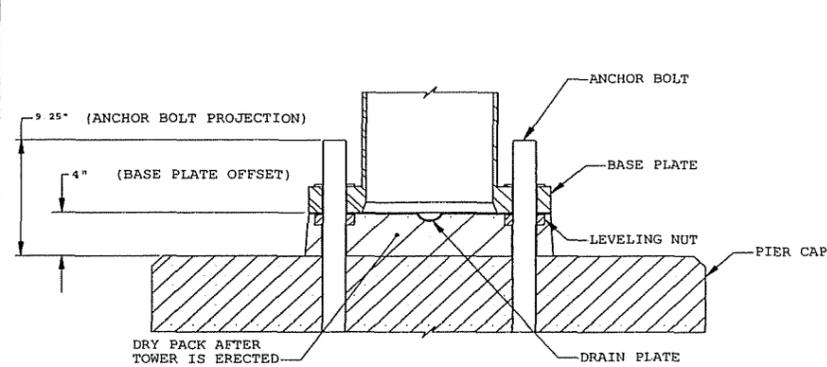
SECTION B-B
PIER ELEVATION
(NO SCALE)

GENERAL NOTES: DRILLED PIER

- Prior to excavation, check the area for underground facilities.
- All reinforcing shall be deformed bars conforming to ASTM A615 Grade 60 (60,000 psi min. yield) and shall be provided by the foundation contractor.
- All concrete shall have a minimum compressive strength of 3,000 psi @ 28 days. The requirement for the concrete shall be as given in the ACI "Building Code Requirements for Reinforced Concrete", ACI 318, the latest edition. Min concrete slump of 6".
- The tops of pedestals at the same elevation shall be level with each other within 1/4 inch. Trowel tops of pedestals smooth.
- Steel reinforcement and concrete should be placed immediately upon completion of the pier excavations. Contractor shall not allow a cold joint to form in the pier unless approved by Engineer. Portion above grade should be formed. Temporary casing may be required to prevent caving prior to concrete placement.
- Ground water was not encountered below grade during boring.
- Concrete is assumed to weigh 150 pcf.
- Dry Packing Procedures: Mix 2 parts sand, one part cement, and add just enough water to allow molding a shape by hand. Restrict the water content to a minimum. (This minimizes the possibility of shrinkage when the mortar, dry-mixed for maximum density and strength, is packed in place.) The packing shall be done by hand, ramming with bars or caulking tools, or a combination thereof.
- Estimated concrete volume = 64 cubic yards total
- Design Based on the following loads from installation drawing for order number 18791-05, Dated, 01/11/06

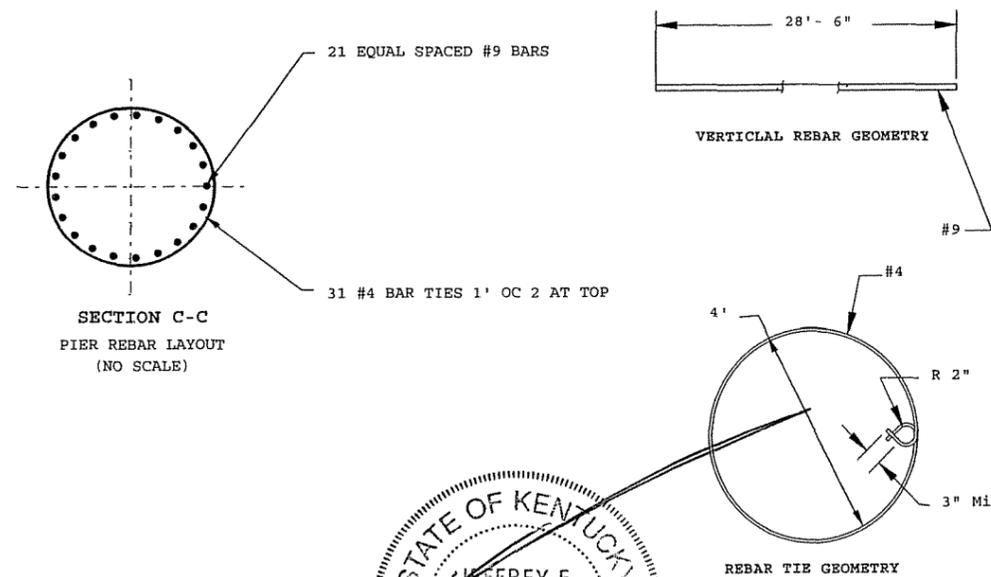
Uplift	=	411 KIP
Download	=	472 KIP
Shear	=	43.5 KIP
- Reference: Geotechnical Firm, Terracon, Report, Project No. 57057372G, Dated December 28, 2005.

12. A representative of the Professional Geotechnical Firm Terracon should be present during construction, to verify the soils are consistent with soil borings and assumptions.



SECTION A-A TYP
DRAIN PLATE INSTALLATION
(NO SCALE)

Note: EXTREME CARE SHOULD BE TAKEN TO ENSURE THAT ALL LEVELING NUTS ARE LEVEL WITH RESPECT TO EACH OTHER PRIOR TO ERECTION OF THE TOWER



SECTION C-C
PIER REBAR LAYOUT
(NO SCALE)

VERTICAL REBAR GEOMETRY

REBAR TIE GEOMETRY

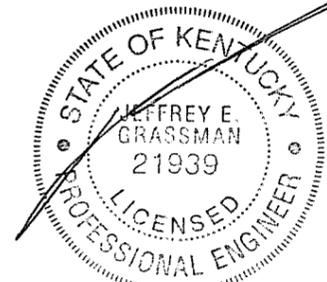
Reinforcement Steel Schedule						Total Weight (lb)	Total BAR Qty
Type	Rebar size	Rebar Spacing	Bar Length (ft)	Bar Weight (lb/ft)	Weight (lb)	BAR Qty	
1	Vertical #9	EQUAL	28'- 6"	3.4	6105	63	
2	Ties #4	1'-0"	13'- 9 5/8"	0.67	860	93	
TOTAL STEEL WEIGHT FOR COMPLETE FOUNDATION INSTALLATION =						6965#	

REBAR LAP SPLICE TABLE				Ref. ACI 318-95
Rebar Size	Rebar Grade	CONCRETE STRENGTH PSI	VERTICAL REBAR OVERLAP	
#9	60	3000	48"	

NOTES: Splicing is an alternative to specified material listed in rebar schedule. Where vertical bars are to be spliced, splices should be staggered.

GRADE 60 REBAR TIES		HOOK GEOMETRY	
Rebar Size	ASK #	6db* **	4db*
#4	11-97204	3" Min	R 2"

* db = Bar Diameter
** Refers to (UBC-1997 1921.2.1.7) Stirrup hook detail 6db 3in min.



UNLESS OTHERWISE NOTED DIMENSIONS ARE IN INCHES TOLERANCES ARE:	valmont MICROFLECT		3575 25TH STREET SE SALEM, OR 97302 MAIN (503) 363-9267 FAX (503) 316-2040
	By: JG	Check: MF	DRILLED PIER FOUNDATION LAYOUT CUSTOMER: T-Mobile
X' - X X/X" - ± 1/8" X X/X" - ± 1/16" X' - ± 1/8" X" - ± 1/16"	Date: 01/11/06		SITE: LV0463, Sebre, KY

FLOOD HAZARD STATEMENT:

THIS COMMUNICATIONS SITE (THE SUBJECT SITE AS SHOWN) IS NOT LOCATED WITHIN THE LIMITS OF A DESIGNATED 100 YEAR FLOOD ZONE PER FEMA FIRM MAP COMMUNITY PANEL NUMBER 210302, WEBSTER COUNTY, KENTUCKY. NO DETAILED FLOOD STUDY HAS BEEN CONDUCTED WITHIN THIS COMMUNITY.

PROJECT BENCHMARK

TBM ELEVATION DATUM IS BASED UPON GPS SURVEY METHODS AND PROCEDURES.
TOP OF "CAPPED" IRON PIN SET THIS SURVEY
ELEVATION = 403.60' M.S.L.
(SEE PLAN FOR LOCATION)

T-MOBILE'S 20' WIDE OVERHEAD ELECTRIC EASEMENT AREA DESCRIPTION

BEING A TWENTY FOOT WIDE OVERHEAD ELECTRIC AND PUBLIC UTILITY EASEMENT EXTENDING FROM THE SOUTHEAST MARGIN OF JACKIE A. NUNN PROPERTY TO THE EAST MARGIN OF T-MOBILE'S TOWER SITE LEASEHOLD AREA, AT ALL TIMES BEING TEN FEET WIDE EACH SIDE AND PARALLEL TO THE FOLLOWING DESCRIBED CENTERLINE:

BEGINNING AT A POINT IN THE SOUTHEAST MARGIN OF THE JACKIE A. NUNN PROPERTY LOCATED AT KENTUCKY STATE PLANE (SOUTH) NAD 83 GRID COORDINATE NORTH 2,098,051.21, EAST 1,140,258.77, SAID IRON PIN BEING SOUTH 36 DEGREES 45 MINUTES 00 SECONDS WEST, 10.84 FEET FROM A METAL T-POST FOUND IN THE SOUTH MARGIN OF KENTUCKY STATE HIGHWAY 370 AT THE NORTHEAST CORNER OF THE PROPERTY CONVEYED TO JACKIE A. NUNN, OF RECORD IN DEED BOOK 203, PAGE 134, OF THE COUNTY COURT CLERK'S OFFICE OF WEBSTER COUNTY, KENTUCKY;

THENCE, NORTH 80 DEGREES 08 MINUTES 00 SECONDS WEST, 83.24 FEET TO AN EXISTING POWER POLE;

THENCE, SOUTH 36 DEGREES 16 MINUTES 15 SECONDS WEST, 111.64 FEET TO A POINT IN THE EAST MARGIN OF T-MOBILE'S TOWER SITE LEASEHOLD AREA, SAID POINT BEING SOUTH 7 DEGREES 15 MINUTES 30 SECONDS EAST, 27.99 FEET FROM AN IRON PIN SET AT THE NORTHEAST CORNER OF T-MOBILE'S TOWER SITE LEASEHOLD AREA, CONTAINING 3,898 SQUARE FEET, (0.09 ACRES).

BEING A PORTION OF THE PROPERTY CONVEYED TO JACKIE A. NUN, OF RECORD IN DEED BOOK 203, PAGE 134, OF THE COUNTY COURT CLERK'S OFFICE OF WEBSTER COUNTY, KENTUCKY.

T-MOBILE'S 20' WIDE JOINT INGRESS / EGRESS & PUBLIC UTILITY ACCESS EASEMENT

JACKIE A. NUNN
DEED BOOK 203, PAGE 134
(90-8-1)

CENTERLINE OF PROPOSED SELF SUPPORTING TOWER
LATITUDE = 37° 34' 38.7"
LONGITUDE = 87° 28' 36.0"
ELEVATION = 401.00' M.S.L.

UTILITY NOTE:

THIS SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES. ABOVE GRADE AND UNDERGROUND UTILITIES SHOWN WERE TAKEN FROM VISIBLE APPURTENANCES AT THE SITE, PUBLIC RECORDS AND/OR MAPS PREPARED BY OTHERS. THE SURVEYOR MAKES NO GUARANTEE THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES ARE IN THE EXACT LOCATION INDICATED. THEREFORE, RELIANCE UPON THE TYPE, SIZE AND LOCATION OF UTILITIES SHOWN SHOULD BE DONE SO WITH THIS CIRCUMSTANCE CONSIDERED. DETAILED VERIFICATION OF EXISTENCE, LOCATION AND DEPTH SHOULD ALSO BE MADE PRIOR TO ANY DECISION RELATIVE THERETO IS MADE. AVAILABILITY AND COST OF SERVICE SHOULD BE CONFIRMED WITH THE APPROPRIATE UTILITY COMPANY.

CENTERLINE DATA - T-MOBILE'S 20' WIDE JOINT INGRESS/EGRESS & PUBLIC UTILITY ACCESS EASEMENT					
NO.	DELTA/BEARING	RADIUS	LENGTH	TAN	CHORD
1	41° 47' 22"	45.13'	32.92'	17.23'	S 13° 37' 57" W/32.19'
2	S 07° 15' 44" E	---	59.14'	---	---
3	S 16° 37' 00" E	---	152.12'	---	---

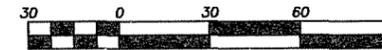
T-MOBILE'S TOWER SITE LEASEHOLD AREA

STATE OF KENTUCKY
F.V. NEELEY
LS-3093
LICENSED PROFESSIONAL LAND SURVEYOR

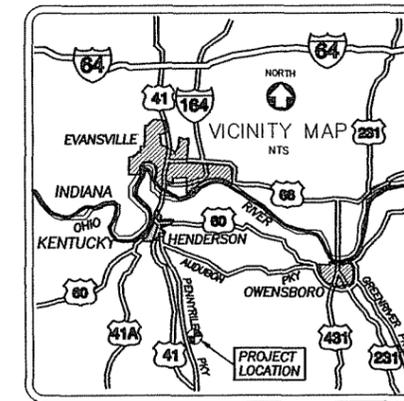
LEGENDS:

- IRON PIN SET THIS SURVEY
- IRON PIN FOUND
- RIGHT-OF-WAY/PROPERTY LINE
- PROPERTY BOUNDARY
- 560 INDEX CONTOURS
- 1' INTERVAL
- OHE & T OVERHEAD ELECTRIC & TELEPHONE LINES
- OHE OVERHEAD ELECTRIC
- UGE UNDERGROUND ELECTRIC

KY (SOUTH) SPC GRID NORTH



Scale 1" = 60'
GRAPHIC SCALE



T-MOBILE'S TOWER SITE LEASEHOLD AREA DESCRIPTION

BEGINNING AT A CAPPED IRON PIN (#3093) SET AT THE NORTHEAST CORNER OF T-MOBILE'S TOWER SITE LEASEHOLD AREA LOCATED AT KENTUCKY STATE PLANE (SOUTH) NAD 83 GRID COORDINATE NORTH 2,098,003.23, EAST 1,140,107.17, SAID IRON PIN BEING SOUTH 70 DEGREES 16 MINUTES 52 SECONDS WEST, 167.93 FEET FROM A METAL T-POST FOUND IN THE SOUTH MARGIN OF KENTUCKY STATE HIGHWAY 370 AT THE NORTHEAST CORNER OF THE PROPERTY CONVEYED TO JACKIE A. NUNN, OF RECORD IN DEED BOOK 203, PAGE 134, OF THE COUNTY COURT CLERK'S OFFICE OF WEBSTER COUNTY, KENTUCKY;

THENCE, SOUTH 7 DEGREES 15 MINUTES 30 SECONDS EAST, 100.00 FEET TO A CAPPED IRON PIN (#3093) SET AT THE SOUTHEAST CORNER OF T-MOBILE'S TOWER SITE LEASEHOLD AREA;

THENCE, SOUTH 82 DEGREES 44 MINUTES 30 SECONDS WEST, 100.00 FEET TO A CAPPED IRON PIN (33093) SET AT THE SOUTHWEST CORNER OF T-MOBILE'S TOWER SITE LEASEHOLD AREA;

THENCE, NORTH 7 DEGREES 15 MINUTES 30 SECONDS WEST, 100.00 FEET TO A CAPPED IRON PIN (#3093) SET AT THE NORTHWEST CORNER OF T-MOBILE'S TOWER SITE LEASEHOLD AREA;

THENCE, NORTH 82 DEGREES 44 MINUTES 30 SECONDS EAST, 100.00 FEET TO THE POINT OF BEGINNING, CONTAINING 10,000 SQUARE FEET, (0.23 ACRES).

BEING A PORTION OF THE PROPERTY CONVEYED TO JACKIE A. NUN, OF RECORD IN DEED BOOK 203, PAGE 134, OF THE COUNTY COURT CLERK'S OFFICE OF WEBSTER COUNTY, KENTUCKY.

T-MOBILE'S 20' WIDE OVERHEAD ELECTRIC & PUBLIC UTILITY EASEMENT

T-MOBILE'S 20' WIDE JOINT INGRESS / EGRESS & PUBLIC UTILITY ACCESS EASEMENT

BEING A TWENTY FOOT WIDE JOINT INGRESS / EGRESS AND PUBLIC UTILITY ACCESS EASEMENT EXTENDING FROM THE SOUTH MARGIN OF KENTUCKY STATE HIGHWAY 370 TO THE NORTHWEST MARGIN OF T-MOBILE'S TOWER SITE LEASEHOLD AREA, AT ALL TIMES BEING TEN FEET WIDE EACH SIDE AND PARALLEL TO THE FOLLOWING DESCRIBED CENTERLINE:

BEGINNING AT A CAPPED IRON PIN (#3093) SET IN THE SOUTH MARGIN OF KENTUCKY STATE HIGHWAY 370 LOCATED AT KENTUCKY STATE PLANE (SOUTH) NAD 83 GRID COORDINATE NORTH 2,098,232.63, EAST 1,140,014.18, SAID IRON PIN BEING NORTH 55 DEGREES 28 MINUTES 16 SECONDS WEST, 304.76 FEET FROM A METAL T-POST FOUND IN THE SOUTH MARGIN OF KENTUCKY STATE HIGHWAY 370 AT THE NORTHEAST CORNER OF THE PROPERTY CONVEYED TO JACKIE A. NUNN, OF RECORD IN DEED BOOK 203, PAGE 134, OF THE COUNTY COURT CLERK'S OFFICE OF WEBSTER COUNTY, KENTUCKY;

THENCE, LEAVING THE SOUTH MARGIN OF KENTUCKY STATE HIGHWAY 370, ALONG A CURVE TO THE LEFT WITH A CENTRAL ANGLE OF 41 DEGREES 47 MINUTES 22 SECONDS, A RADIUS OF 45.13 FEET, AND A CHORD BEARING OF SOUTH 13 DEGREES 37 MINUTES 57 SECONDS WEST, 32.19 FEET, A TOTAL DISTANCE OF 32.92 FEET TO A CAPPED IRON PIN (#3093) SET;

THENCE, SOUTH 7 DEGREES 15 MINUTES 44 SECONDS EAST, 59.14 FEET TO A CAPPED IRON PIN (#3093) SET;

THENCE, SOUTH 16 DEGREES 37 MINUTES 00 SECONDS EAST, 152.12 FEET TO A CAPPED IRON PIN (#3093) SET IN THE NORTHWEST MARGIN OF T-MOBILE'S TOWER SITE LEASEHOLD AREA, SAID IRON PIN BEING SOUTH 82 DEGREES 44 MINUTES 30 SECONDS WEST, 50.00 FEET FROM AN IRON PIN SET AT THE NORTHEAST CORNER OF T-MOBILE'S TOWER SITE LEASEHOLD AREA, CONTAINING 4,884 SQUARE FEET, (0.112 ACRES).

BEING A PORTION OF THE PROPERTY CONVEYED TO JACKIE A. NUN, OF RECORD IN DEED BOOK 203, PAGE 134, OF THE COUNTY COURT CLERK'S OFFICE OF WEBSTER COUNTY, KENTUCKY.

GENERAL NOTES:

- TOPOGRAPHIC ELEVATIONS SHOWN WERE DERIVED FROM GRID CROSS-SECTIONS, USING A TOTAL STATION FOR HORIZONTAL AND VERTICAL CONTROL. ALL DISTANCES MEASURED HAVE BEEN ADJUSTED FOR TEMPERATURE.
- NO TITLE COMMITMENT WAS FURNISHED TO THIS SURVEYOR AT THE TIME OF THIS SURVEY; THEREFORE, THIS SURVEY IS SUBJECT TO ANY FINDINGS THAT AN ACCURATE TITLE SEARCH MAY REVEAL.
- PARCEL NUMBERS SHOWN THUS (00), REFER TO TAX MAP NO. 90, OF THE PROPERTY VALUATION OFFICE OF WEBSTER COUNTY, KENTUCKY.
- BEARINGS SHOWN ARE REFERENCED FROM GLOBALLY POSITIONED SATELLITE MONUMENTS AS ESTABLISHED FOR THIS SURVEY.
- PROPERTY OWNER:
JACKIE A. NUNN
ROUTE 2, BOX 35-A
SEBREE, KENTUCKY 42455

I HEREBY CERTIFY THAT THE SURVEY DEPICTED BY THIS PLAT WAS PREPARED BY PERSONS UNDER MY DIRECT SUPERVISION BY THE METHOD OF RANDOM TRAVERSE WITH SIDE SHOTS. THE UNADJUSTED PRECISION OF THE TRAVERSE RATIO WAS 1: 13,250, AND WAS NOT ADJUSTED. THE SURVEY AS SHOWN HEREON IS A CLASS "A" SURVEY, AND THE ACCURACY AND PRECISION OF SAID SURVEY MEETS ALL THE SPECIFICATIONS OF THIS CLASS.

Frank V. Neeley
FRANK V. NEELEY P.L.S. 3093

Feb 15, 2000
DATE

REVISIONS:

PROJECT NO: 25.165.20
NOVEMBER 30, 2005
DRAWN BY: L.E.F.
CHECKED BY: F.V.M.

SHARONDALE SURVEYING INC.
4205 HILLSBORO PIKE, SUITE 100
SEBREE, KY 40371
(601) 292-0435
FAX (615) 292-7870
EMAIL: sharondale@bellsouth.net

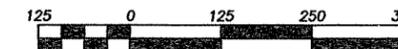
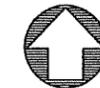
T-MOBILE SITE SURVEY: KENTUCKY "SEBREE" TOWER SITE LOCATED IN: SEBREE, WEBSTER COUNTY, KENTUCKY TOWER SITE LEASEHOLD AREA SURVEY PREPARED FOR T-MOBILE T-MOBILE SITE NO.: 9LVO463

SHEET NUMBER:
1 OF 1

PROJECT NUMBER:
J.N. 25.165.20

TAX MAP	PROPERTY OWNER	MAILING ADDRESS
090-008-001	JACKIE A. NUNN	ROUTE 2, BOX 35-A SEBREE, KY 42455
090-006-000	GARY PEYTON & JOSEPH PEYTON	P. O. BOX 205 SLAUGHTER, KY 42456
090-026-001	GARY PEYTON & JOSEPH PEYTON	P. O. BOX 205 SLAUGHTER, KY 42456
090-009-000	WILLIAM E. WRIGHT	4022 STATE ROUTE 370 EAST SEBREE, KY 42455
090-009-001	WILLIAM D. & MARTHA WRIGHT	4046 STATE ROUTE 370 EAST SEBREE, KY 42455
090-009-002	WILLIAM D. & MARTHA WRIGHT	4046 STATE ROUTE 370 EAST SEBREE, KY 42455
090-006-002	PAMELA HUNTER	3949 STATE ROUTE 370 EAST SEBREE, KY 42455
090-006-004	PAMELA & DEWAYNE HUNTER	3949 STATE ROUTE 370 EAST SEBREE, KY 42455
090-006-001	ROSALIE EDWARDS	4087 STATE ROUTE 370 EAST SEBREE, KY 42455
090-007-000	ALLIED RESOURCES, INC.	P. O. BOX 417 SEBREE, KY 42455

KY (SOUTH) SPC GRID NORTH



Scale 1" = 250'
GRAPHIC SCALE

LEGENDS:

- IRON PIN SET THIS SURVEY
- IRON PIN FOUND
- - - - - RIGHT-OF-WAY/PROPERTY LINE
- — — — — PROPERTY BOUNDARY
- 560— INDEX CONTOURS
- 1' INTERVAL
- OHE & T— OVERHEAD ELECTRIC & TELEPHONE LINES
- OHE— OVERHEAD ELECTRIC
- UGE— UNDERGROUND ELECTRIC

REVISIONS:

PROJECT NO: 25.165.20

NOVEMBER 30, 2005

DRAWN BY: L.E.F.

CHECKED BY: F.V.N.

SHARONDALE SURVEYING INC.
 4205 HILLSBORO PIKE
 HOBBS BUILDING SUITE 301
 NASHVILLE, TN 37215
 (615) 257-2923
 FAX: (615) 292-8770
 EMAIL: sharon@bellsouth.net

T-MOBILE SITE SURVEY: KENTUCKY
 "SEBREE" TOWER SITE
 LOCATED IN: SEBREE, WEBSTER COUNTY, KENTUCKY
 LOCAL PROPERTY AREA IMPROVEMENT MAP PLAN SHEET
 PREPARED FOR T-MOBILE
 T-MOBILE SITE NO.: 9LV0463

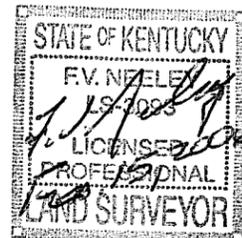
SHEET NUMBER:

1 OF 1

PROJECT NUMBER:

J.N. 25.165.20

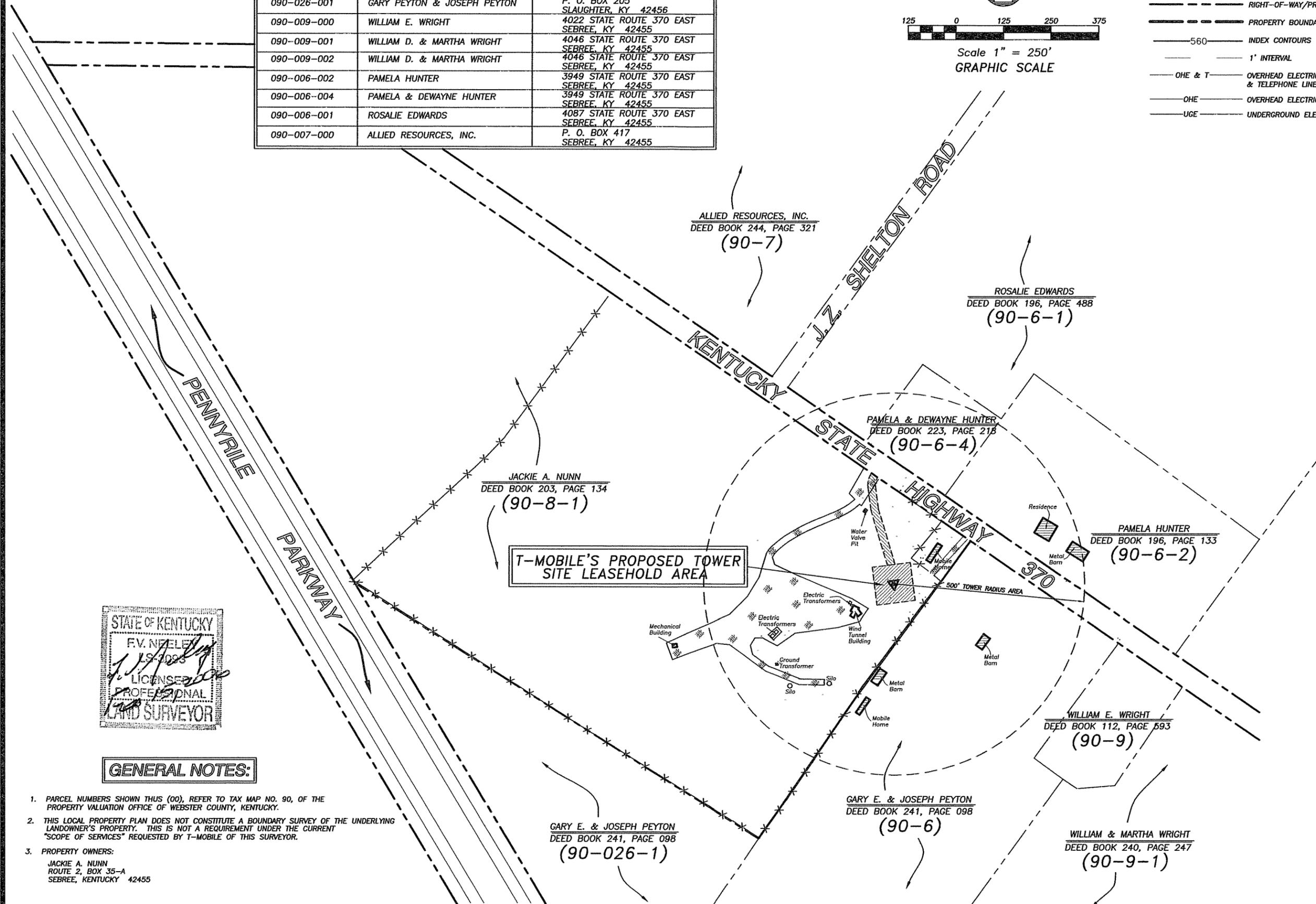
Plot date: NOVEMBER 30, 2005



GENERAL NOTES:

- PARCEL NUMBERS SHOWN THUS (00), REFER TO TAX MAP NO. 90, OF THE PROPERTY VALUATION OFFICE OF WEBSTER COUNTY, KENTUCKY.
- THIS LOCAL PROPERTY PLAN DOES NOT CONSTITUTE A BOUNDARY SURVEY OF THE UNDERLYING LANDOWNER'S PROPERTY. THIS IS NOT A REQUIREMENT UNDER THE CURRENT "SCOPE OF SERVICES" REQUESTED BY T-MOBILE OF THIS SURVEYOR.
- PROPERTY OWNERS:
 JACKIE A. NUNN
 ROUTE 2, BOX 35-A
 SEBREE, KENTUCKY 42455

T-MOBILE'S PROPOSED TOWER SITE LEASEHOLD AREA



ALLIED RESOURCES, INC.
 DEED BOOK 244, PAGE 321
 (90-7)

ROSALIE EDWARDS
 DEED BOOK 196, PAGE 488
 (90-6-1)

PAMELA & DEWAYNE HUNTER
 DEED BOOK 223, PAGE 218
 (90-6-4)

JACKIE A. NUNN
 DEED BOOK 203, PAGE 134
 (90-8-1)

PAMELA HUNTER
 DEED BOOK 196, PAGE 133
 (90-6-2)

WILLIAM E. WRIGHT
 DEED BOOK 112, PAGE 593
 (90-9)

GARY E. & JOSEPH PEYTON
 DEED BOOK 241, PAGE 098
 (90-6)

GARY E. & JOSEPH PEYTON
 DEED BOOK 241, PAGE 098
 (90-026-1)

WILLIAM & MARTHA WRIGHT
 DEED BOOK 240, PAGE 247
 (90-9-1)

9LV0463 SEBREE

DIRECTIONS FROM THE COUNTY SEAT
DIXON, KENTUCKY 42409

From the Court House, go right to State Highway 132 and turn right. Follow Highway 132 to Sebree, ending at Main Street. At the intersection of Main Street, turn right and follow through town. Main Street turns into State Highway 370. Follow Highway 370 East. After it goes under the Penny Rile Parkway, the site will be on the right, approximately .5 miles. The entrance is the 2nd access from Highway 370 and the site site behind the house trailer.

SITE LEASE WITH OPTION

THIS SITE LEASE WITH OPTION (this "Lease") is by and between Jackie A. Nunn ("Landlord") and Powertel/Kentucky, Inc., a Delaware Corporation ("Tenant").

1. Option to Lease.

(a) In consideration of the payment of [REDACTED] (the "Option Fee") by Tenant to Landlord, Landlord hereby grants to Tenant an option to lease the use of a portion of the real property described in the attached Exhibit A (the "Property"), on the terms and conditions set forth herein (the "Option"). The Option shall be for an initial term of twelve (12) months, commencing on the Effective Date (as defined below) (the "Option Period"). The Option Period may be extended by Tenant for an additional twelve (12) months upon written notice to Landlord and payment of the sum of [REDACTED] ("Additional Option Fee") at any time prior to the end of the Option Period.

(b) During the Option Period and any extension thereof, and during the term of this Lease, Landlord agrees to cooperate with Tenant in obtaining, at Tenant's expense, all licenses and permits or authorizations required for Tenant's use of the Premises (as defined below) from all applicable government and/or regulatory entities (including, without limitation, zoning and land use authorities, and the Federal Communication Commission ("FCC") ("Governmental Approvals"), including appointing Tenant as agent for all land use and zoning permit applications, and Landlord agrees to cooperate with and to allow Tenant, at no cost to Landlord, to obtain a title report, zoning approvals and variances, land-use permits, and Landlord expressly grants to Tenant a right of access to the Property to perform surveys, soils tests, and other engineering procedures or environmental investigations on the Property necessary to determine that Tenant's use of the Premises will be compatible with Tenant's engineering specifications, system design, operations and Governmental Approvals. Notwithstanding the foregoing, Tenant may not change the zoning classification of the Property without first obtaining Landlord's written consent. During the Option Period and any extension thereof, Landlord agrees that it will not interfere with Tenant's efforts to secure other licenses and permits or authorizations that relate to other property. During the Option Period and any extension thereof, Tenant may exercise the Option by so notifying Landlord in writing, at Landlord's address in accordance with Section 12 hereof.

(c) If Tenant exercises the Option, then, subject to the following terms and conditions, Landlord hereby leases to Tenant the use of that portion of the Property sufficient for placement of the Antenna Facilities (as defined below), together with all necessary space and easements for access and utilities, as generally described and depicted in the attached Exhibit B (collectively referred to hereinafter as the "Premises"). The Premises, located at State Rt. 370 E., Webster County, Kentucky, , comprises approximately 10,000 square feet.

2. Term. The initial term of this Lease shall be five (5) years commencing on the date of the exercise of the Option (the "Commencement Date"), and terminating at midnight on the last day of the initial term (the "Initial Term").

3. Permitted Use. The Premises may be used by Tenant for the transmission and reception of radio communication signals and for the construction, installation, operation, maintenance, repair, removal or replacement of related facilities, tower and base, antennas, microwave dishes, equipment shelters and/or cabinets and related activities.

4. Rent. Tenant shall pay Landlord, as rent, [REDACTED] per month ("Rent"). Rent shall be payable within twenty (20) days following the Commencement Date prorated for the remainder of the month in which the Commencement Date falls and thereafter Rent will be payable monthly in advance by the fifth day of each month to Jackie A. Nunn at Landlord's address specified in Section 12 below. If this Lease is terminated at a time other than on the last day of a month, Rent shall be prorated as of the date of termination for any reason (other than a default by Tenant) and all prepaid Rent shall be immediately refunded to Tenant.

5. Renewal. Tenant shall have the right to extend this Lease for five (5) additional, five-year terms (each a "Renewal Term"). Each Renewal Term shall be on the same terms and conditions as set forth herein, except that Rent shall be increased by [REDACTED] of the Rent paid over the preceding term. This Lease shall automatically renew for each successive Renewal Term unless Tenant notifies Landlord, in writing, of Tenant's intention not to renew this Lease, at least sixty (60) days prior to the expiration of the Initial Term or any Renewal Term. If Tenant shall remain in possession of the Premises at the expiration of this Lease or any Renewal Term without a written agreement, such tenancy shall be deemed a month-to-month tenancy under the same terms and conditions of this Lease.

6. Interference. Tenant shall not use the Premises in any way which interferes with the use of the Property by Landlord, or lessees or licensees of Landlord with rights in the Property prior in time to Tenant's (subject to Tenant's rights under this Lease, including, without limitation, non-interference). Similarly, Landlord shall not use, nor shall Landlord permit its lessees, licensees, employees, invitees or agents to use, any portion of the Property in any way which interferes with the operations of Tenant. Such interference shall be deemed a material breach by the interfering party, who shall, upon written

notice from the other, be responsible for terminating said interference. In the event any such interference does not cease promptly, the parties acknowledge that continuing interference may cause irreparable injury and, therefore, the injured party shall have the right, in addition to any other rights that it may have at law or in equity, to bring a court action to enjoin such interference or to terminate this Lease immediately upon written notice.

7. Improvements; Utilities; Access.

(a) Tenant shall have the right, at its expense, to erect and maintain on the Premises improvements, personal property and facilities necessary to operate its communications system, including, without limitation, radio transmitting and receiving antennas, microwave dishes, tower and base, equipment shelters and/or cabinets and related cables and utility lines and a location based system, including, without limitation, antenna(s), coaxial cable, base units and other associated equipment (collectively, the "Antenna Facilities"), as such location based system may be required by any county, state or federal agency/department. Tenant shall provide written notice to Landlord of the installation of a location based system on the Premises in the event such system was not a part of the initial Antenna Facilities installation. Tenant shall have the right to alter, replace, expand, enhance and upgrade the Antenna Facilities at any time during the term of this Lease. Tenant shall cause all construction to occur lien-free and in compliance with all applicable laws and ordinances. Landlord acknowledges that it shall not interfere with any aspects of construction, including, without limitation, attempting to direct construction personnel as to the location of or method of installation of the Antenna Facilities and the Easements (as defined below) ("Construction Interference"). Landlord further acknowledges that it will be responsible for any costs and damages (including, fines and penalties) that are directly attributable to Landlord's Construction Interference. The Antenna Facilities shall remain the exclusive property of Tenant. Tenant shall have the right to remove the Antenna Facilities at any time during and upon the expiration or termination of this Lease.

(b) Tenant, at its expense, may use any and all appropriate means of restricting access to the Antenna Facilities, including, without limitation, the construction of a fence.

(c) Tenant shall, at Tenant's expense, keep and maintain the Antenna Facilities now or hereafter located on the Property in commercially reasonable condition and repair during the term of this Lease, normal wear and tear and casualty excepted. Upon termination or expiration of this Lease, the Premises shall be returned to Landlord in good, usable condition, normal wear and tear and casualty excepted.

(d) Tenant shall have the right to install utilities, at Tenant's expense, and to improve the present utilities on the Property (including, but not limited to, the installation of emergency power generators). Landlord agrees to use reasonable efforts in assisting Tenant to acquire necessary utility service. Tenant shall, wherever practicable, install separate meters for utilities used on the Property by Tenant. Tenant shall have the right to install necessary conduit to the point of connection within the Building. Landlord shall diligently correct any variation, interruption or failure of utility service.

(e) As partial consideration for Rent paid under this Lease, Landlord hereby grants Tenant an easement in, under and across the Property for ingress, egress, utilities and access (including access for the purposes described in Section 1) to the Premises adequate to install and maintain utilities, which include, but are not limited to, the installation of power and telephone service cable, and to service the Premises and the Antenna Facilities at all times during the Initial Term of this Lease and any Renewal Term (collectively, the "Easements"). The Easements provided hereunder shall have the same term as this Lease.

(f) Tenant shall have 24-hours-a-day, 7-days-a-week access to the Premises ("Access") at all times during the Initial Term of this Lease and any Renewal Term. In the event Landlord, its employees or agents impede or deny Access to Tenant, its employees or agents, Tenant shall, without waiving any other rights that it may have at law or in equity, deduct from Rent amounts due under this Lease an amount equal to five hundred and no/100 dollars (\$500.00) per day for each day that Access is impeded or denied.

8. Termination. Except as otherwise provided herein, this Lease may be terminated, without any penalty or further liability as follows:

(a) upon thirty (30) days' written notice by Landlord if Tenant fails to cure a default for payment of amounts due under this Lease within that thirty (30) day period;

(b) immediately if Tenant notifies Landlord of unacceptable results of any title report, environmental or soil tests prior to Tenant's installation of the Antenna Facilities on the Premises, or if Tenant is unable to obtain, maintain, or otherwise forfeits or cancels any license (including, without limitation, an FCC license), permit or any Governmental Approval necessary to the installation and/or operation of the Antenna Facilities or Tenant's business;

(c) upon ninety (90) days' written notice by Tenant if the Property or the Antenna Facilities are, or become unacceptable under Tenant's design or engineering specifications for its Antenna Facilities or the communications system to which the Antenna Facilities belong;

(d) immediately upon written notice by Tenant if the Premises or the Antenna Facilities are destroyed or damaged so as in Tenant's reasonable judgment to substantially and adversely affect the effective use of the Antenna Facilities. In such event, all rights and obligations of the parties shall cease as of the date of the damage or destruction, and Tenant shall be entitled to the reimbursement of any Rent prepaid by Tenant. If Tenant elects to continue this Lease, then all Rent shall abate until the Premises and/or the Antenna Facilities are restored to the condition existing immediately prior to such damage or destruction; or

(e) at the time title to the Property transfers to a condemning authority, pursuant to a taking of all or a portion of the Property sufficient in Tenant's determination to render the Premises unsuitable for Tenant's use. Landlord and Tenant shall each be entitled to pursue their own separate awards with respect to such taking. Sale of all or part of the Property to a purchaser with the power of eminent domain in the face of the exercise of the power shall be treated as a taking by condemnation.

9. Default and Right to Cure. Notwithstanding anything contained herein to the contrary and without waiving any other rights granted to it at law or in equity, each party shall have the right, but not the obligation, to terminate this Lease on written notice pursuant to Section 12 hereof, to take effect immediately, if the other party (i) fails to perform any covenant for a period of thirty (30) days after receipt of written notice thereof to cure or (ii) commits a material breach of this Lease and fails to diligently pursue such cure to its completion after sixty (60) days' written notice to the defaulting party.

10. Taxes. Landlord shall pay when due all real property taxes for the Property, including the Premises. In the event that Landlord fails to pay any such real property taxes or other fees and assessments, Tenant shall have the right, but not the obligation, to pay such owed amounts and deduct them from Rent amounts due under this Lease. Notwithstanding the foregoing, Tenant shall pay any personal property tax, real property tax or any other tax or fee which are directly attributable to the presence or installation of the Tenant's Antenna Facilities, only for so long as this Lease has not expired of its own terms or is not terminated by either party. Landlord hereby grants to Tenant the right to challenge, whether in a Court, Administrative Proceeding, or other venue, on behalf of Landlord and/or Tenant, any personal property or real property tax assessments that may affect Tenant. If Landlord receives notice of any personal property or real property tax assessment against the Landlord, which may affect Tenant and is directly attributable to Tenant's installation, Landlord shall provide timely notice of the assessment to Tenant sufficient to allow Tenant to consent to or challenge such assessment. Further, Landlord shall provide to Tenant any and all documentation associated with the assessment and shall execute any and all documents reasonably necessary to effectuate the intent of this Section 10. In the event real property taxes are assessed against Landlord or Tenant for the Premises or the Property, Tenant shall have the right, but not the obligation, to terminate this Lease without further liability after thirty (30) days' written notice to Landlord, provided Tenant pays any real property taxes assessed as provided herein.

11. Insurance and Subrogation and Indemnification.

(a) Tenant shall provide Commercial General Liability Insurance in an aggregate amount of One Million and no/100 dollars (\$1,000,000.00.00). Tenant may satisfy this requirement by obtaining the appropriate endorsement to any master policy of liability insurance Tenant may maintain.

(b) Landlord and Tenant hereby mutually release each other (and their successors or assigns) from liability and waive all right of recovery against the other for any loss or damage covered by their respective first party property insurance policies for all perils insured thereunder. In the event of such insured loss, neither party's insurance company shall have a subrogated claim against the other. To the extent loss or damage is not covered by their first party property insurance policies, Landlord and Tenant each agree to indemnify and hold harmless the other party from and against any and all claims, damages, cost and expenses, including reasonable attorney fees, to the extent caused by or arising out of (a) the negligent acts or omissions or willful misconduct in the operations or activities on the Property by the indemnifying party or the employees, agents, contractors, licensees, tenants and/or subtenants of the indemnifying party, or (b) a breach of any obligation of the indemnifying party under this Lease. Notwithstanding the foregoing, this indemnification shall not extend to indirect, special, incidental or consequential damages, including, without limitation, loss of profits, income or business opportunities to the indemnified party or anyone claiming through the indemnified party. The indemnifying party's obligations under this section are contingent upon (i) its receiving prompt written notice of any event giving rise to an obligation to indemnifying the other party and (ii) the indemnified party's granting it the right to control the defense and settlement of the same. Notwithstanding anything to the contrary in this Lease, the parties hereby confirm that the provisions of this section shall survive the expiration or termination of this Lease. Tenant shall not be responsible to Landlord, or any third-party, for any claims, costs or damages (including, fines and penalties) attributable to any pre-existing violations of applicable codes, statutes or other regulations governing the Property, including the Premises.

12. Notices. All notices, requests, demands and other communications shall be in writing and are effective three (3) days after deposit in the U.S. mail, certified and postage paid, or upon receipt if personally delivered or sent by next-business-day delivery via a nationally recognized overnight courier to the addresses set forth below. Landlord or Tenant may from time to time designate any other address for this purpose by providing written notice to the other party.

If to Tenant, to:

Powertel/Kentucky, Inc.
% T-Mobile USA, Inc.
12920 SE 38th Street
Bellevue, WA 98006
Attn: PCS Lease Administrator
With a copy to: Attn: Legal Dept.

With a copy to:

Powertel/Kentucky, Inc.
% T-Mobile USA, Inc.
Four Concourse Dr., Suite 300
Atlanta, GA 30328
Attn: Lease Administration Manager

If to Landlord, to:

Jackie A. Nunn
State Rt. 370 E.
Sebree, KY 40244

With a copy to:

13. Quiet Enjoyment, Title and Authority. Landlord covenants and warrants to Tenant that (i) Landlord has full right, power and authority to execute this Lease; (ii) it has good and unencumbered title to the Property free and clear of any liens or mortgages, except those disclosed to Tenant and which will not interfere with Tenant's rights to or use of the Premises; and (iii) execution and performance of this Lease will not violate any laws, ordinances, covenants, or the provisions of any mortgage, lease, or other agreement binding on Landlord. Landlord covenants that at all times during the term of this Lease, Tenant's quiet enjoyment of the Premises or any part thereof shall not be disturbed as long as Tenant is not in default beyond any applicable grace or cure period.

14. Environmental Laws. Landlord represents that it has no knowledge of any substance, chemical or waste (collectively, "Hazardous Substance") on the Property that is identified as hazardous, toxic or dangerous in any applicable federal, state or local law or regulation. Landlord and Tenant shall not introduce or use any Hazardous Substance on the Property in violation of any applicable law. Landlord shall be responsible for, and shall promptly conduct any investigation and remediation as required by any applicable environmental laws, all spills or other releases of any Hazardous Substance not caused solely by Tenant, that have occurred or which may occur on the Property. Each party agrees to defend, indemnify and hold harmless the other from and against any and all administrative and judicial actions and rulings, claims, causes of action, demands and liability (collectively, "Claims") including, but not limited to, damages, costs, expenses, assessments, penalties, fines, losses, judgments and reasonable attorney fees that the indemnitee may suffer or incur due to the existence or discovery of any Hazardous Substances on the Property or the migration of any Hazardous Substance to other properties or the release of any Hazardous Substance into the environment (collectively, "Actions"), that relate to or arise from the indemnitor's activities on the Property. Landlord agrees to defend, indemnify and hold Tenant harmless from Claims resulting from Actions on the Property not caused by Landlord or Tenant prior to and during the Initial Term and any Renewal Term of this Lease. The indemnifications in this section specifically include, without limitation, costs incurred in connection with any investigation of site conditions or any cleanup, remedial, removal or restoration work required by any governmental authority. This Section 14 shall survive the termination or expiration of this Lease.

15. Assignment and Subleasing. Tenant may assign this Lease and the Easements (as defined above) granted herein upon written notice to Landlord. Upon such assignment, Tenant shall be relieved of all liabilities and obligations hereunder and Landlord shall look solely to the assignee for performance under this Lease and all obligations hereunder. Tenant may sublease the Premises, upon written notice to Landlord.

Additionally, Tenant may, upon notice to Landlord, mortgage or grant a security interest in this Lease and the Antenna Facilities, and may assign this Lease and the Antenna Facilities to any mortgagees or holders of security interests, including their successors or assigns (collectively "Mortgagees"), provided such Mortgagees agree to be bound by the terms and provisions of this Lease. In such event, Landlord shall execute such consent to leasehold financing as may reasonably be required by Mortgagees. Landlord agrees to notify Tenant and Tenant's Mortgagees simultaneously of any default by Tenant and to give Mortgagees the same right to cure any default as Tenant or to remove any property of Tenant or Mortgagees located on the Premises, except that the cure period for any Mortgagees shall not be less than thirty (30) days after receipt of the default notice, as provided in Section 9 of this Lease. All such notices to Mortgagees shall be sent to Mortgagees at the address specified by Tenant. Failure by Landlord to give Mortgagees such notice shall not diminish Landlord's rights against Tenant, but shall preserve all rights of Mortgagees to cure any default and to remove any property of Tenant or Mortgagees located on the Premises as provided in Section 17 of this Lease.

16. Successors and Assigns. This Lease and the Easements granted herein shall run with the land, and shall be binding upon and inure to the benefit of the parties, their respective successors, personal representatives and assigns.

17. Waiver of Landlord's Lien. Landlord hereby waives any and all lien rights it may have, statutory or otherwise, concerning the Antenna Facilities or any portion thereof, which shall be deemed personal property for the purposes of this Lease, whether or not the same is deemed real or personal property under applicable laws, and Landlord gives Tenant and Mortgagees

the right to remove all or any portion of the same from time to time, whether before or after a default under this Lease, in Tenant's and/or Mortgagee's sole discretion and without Landlord's consent.

18. Miscellaneous.

(a) The prevailing party in any litigation arising hereunder shall be entitled to its reasonable attorneys' fees and court costs, including appeals, if any.

(b) Each party agrees to furnish to the other, within twenty (20) days after request, such truthful estoppel information as the other may reasonably request.

(c) This Lease constitutes the entire agreement and understanding of the parties, and supersedes all offers, negotiations and other agreements. There are no representations or understandings of any kind not set forth herein. Any amendments to this Lease must be in writing and executed by both parties.

(d) Each party agrees to cooperate with the other in executing any documents (including a Memorandum of Lease in substantially the form attached hereto as Exhibit C) necessary to protect its rights or use of the Premises. The Memorandum of Lease may be recorded in place of this Lease by either party. In the event the Property is encumbered by a mortgage or deed of trust, Landlord agrees, upon request of Tenant, to obtain and furnish to Tenant a non-disturbance and attornment agreement for each such mortgage or deed of trust, in a form reasonably acceptable to Tenant. Tenant may obtain title insurance on its interest in the Premises. Landlord agrees to execute such documents as the title company may require in connection therewith.

(e) This Lease shall be construed in accordance with the laws of the state in which the Property is located.

(f) If any term of this Lease is found to be void or invalid, such finding shall not affect the remaining terms of this Lease, which shall continue in full force and effect. The parties agree that if any provisions are deemed not enforceable, they shall be deemed modified to the extent necessary to make them enforceable. Any questions of particular interpretation shall not be interpreted against the draftsman, but rather in accordance with the fair meaning thereof. No provision of this Lease will be deemed waived by either party unless expressly waived in writing signed by the waiving party. No waiver shall be implied by delay or any other act or omission of either party. No waiver by either party of any provision of this Lease shall be deemed a waiver of such provision with respect to any subsequent matter relating to such provision.

(g) The persons who have executed this Lease represent and warrant that they are duly authorized to execute this Lease in their individual or representative capacity as indicated.

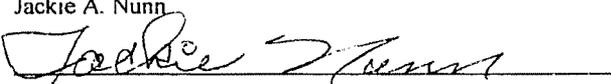
(h) This Lease may be executed in any number of counterpart copies, each of which shall be deemed an original, but all of which together shall constitute a single instrument.

(i) All Exhibits referred to herein and any Addenda are incorporated herein for all purposes. The parties understand and acknowledge that Exhibit A (the legal description of the Property) and Exhibit B (the Premises location within the Property), may be attached to this Lease and the Memorandum of Lease, in preliminary form. Accordingly, the parties agree that upon the preparation of final, more complete exhibits, Exhibits A, and/or B, as the case may be, which may have been attached hereto in preliminary form, may be replaced by Tenant with such final, more complete exhibit(s). The terms of all Exhibits are incorporated herein for all purposes.

(j) If Landlord is represented by any broker or any other leasing agent, Landlord is responsible for all commission fee or other payment to such agent, and agrees to indemnify and hold Tenant harmless from all claims by such broker or anyone claiming through such broker. If Tenant is represented by any broker or any other leasing agent, Tenant is responsible for all commission fee or other payment to such agent, and agrees to indemnify and hold Landlord harmless from all claims by such broker or anyone claiming through such broker

The effective date of this Lease is the date of execution by the last party to sign (the "Effective Date").

LANDLORD: Jackie A. Nunn

By: 

Printed Name: Jackie A. Nunn

Its: Owner

Date: 11-17-05

TENANT: Powertel/Kentucky, Inc.

By:



Printed Name: Calvin Gray

Its: Area Director Of Engineering

Date:

12-22-05

Approved as to form

EXHIBIT A
Legal Description

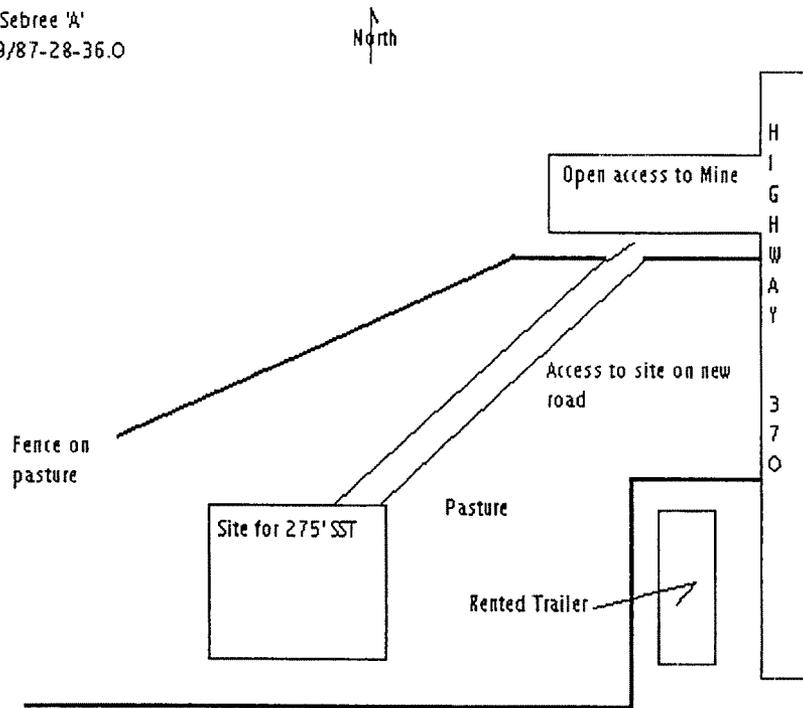
The Property is legally described as follows:

Beginning at an iron pin in the east line of Pennyrile Parkway fence and 9" off same, and in the south line of Kentucky Highway #370; thence with the south line of said highway N 82 deg. 22 min. 07 sec. E, 567.64 feet to an iron pin at a right-of-way marker; S 68 deg. 15 min. 25 sec. E, 407.30 feet to an iron pin thence S 63 deg. 44 min. 29 sec. E, 1825.95 feet to an iron pin, and a corner to Phillip Kohl; thence with Kohl s 26 deg. 27 min. 17 sec. W, 956.47 feet to an iron pin at an old planted Auger; N 66 deg. 01 min. 01 sec. W, 1267.88 feet to an iron pin in the Pennyrile Parkway right-of-way fence, and 9" off; thence with and 9" off the fence N 39 deg. 04 min. 10 sec. W, 1576.99 feet to the point of beginning, and containing 48.67 acres, less any legal right-of-way's or easements.

- Grantors convey one-half (1/2) of their interest in all
- minerals to the Grantee, herein, and reserve and except from this conveyance the remaining one-half (1/2) interest in all minerals.

EXHIBIT B
The location of the Premises within the Property (together with access and utilities)
is more particularly described and depicted as follows:

9LV0463 - Sebree 'A'
37-34-38 9/87-28-36.0
275' SST



Not to scale 10-22-05

property owner name	mailing address	mailing address 2	city	state	zip	tax map
Jackie A. Nunn	Route 2	Box 35-A	Sebree	KY	42455	090.008.001
Gary Peyton and Joseph Peyton	PO Box 205		Slaughter	KY	42456	090.006.000, 090.026.001
William E. Wright	4022 State Route 370 East		Sebree	KY	42455	090.009.000
William D. and Martha Wright	4046 State Route 370 East		Sebree	KY	42455	090.009.001, 090.009.002
Pamela and Dewayne Hunter	3949 State Route 370 East		Sebree	KY	42455	090.006.002, 090.006.004
Rosalie Edwards	4087 State Route 370 East		Sebree	KY	42455	090.006.001
Allied Resources	PO Box 417		Sebree	KY	42455	090.007.000

March 3, 2006

VIA CERTIFIED MAIL – RETURN RECEIPT REQUESTED

Ron & Sheila McElroy
3700 Cumberland Trace
Bowling Green, KY 42103

Re: Application for Cellular Tower
By: Powertel/Kentucky, Inc.
3700 Cumberland Trace, Bowling Green, KY
City-County Planning Commission of Warren County
Docket No.

Dear Sir or Madam:

Powertel/Kentucky, Inc. has applied to the City-County Planning Commission of Warren County for the approval of a cellular tower to be located at 3700 Cumberland Trace, Bowling Green, KY 42103. The proposed project will include a 190foot tall monopole, with a 8 foot lightening arrestor and related ground equipment, all of which will be surrounded with a chain link fence. A map of the location of the location of the proposed construction is enclosed for your reference.

As a neighboring property owner, you have the right to participate in the Planning Board's proceedings on the application. You may contact the Commission's office for additional information about this request or for the date of the Commission review by writing to the City County Planning Commission of Warren County, 1141 State Street, Bowling Green, KY 42101 or by calling that office at (270) 842-1953 or writing Bob Crammer, Powertel/Kentucky, Inc., 11509 Commonwealth Drive, Louisville, KY 40299 or by phone at (502) 297-6202. Please refer to Docket No. _____ in your correspondence or telephone inquiry.

Sincerely,

Bob Crammer
Real Estate Manager

VIA CERTIFIED MAIL – RETURN RECEIPT REQUESTED

February 6, 2006

«property_owner_name»
«mailing_address»
«mailing_address_2»
«city», «state» «zip»

Property tax i.d.: «tax_map»

RE: Application for Wireless Communication Facility
Powertel/Memphis, Inc. (T-Mobile)
9LV0463
3300 State Highway 370 E., Sebree, KY 42455
Webster County, Kentucky PSC

Dear Property Owner:

Powertel/Memphis, Inc. (T-Mobile) has applied to the Kentucky Public Service Commission to construct, maintain and manage a multiple user wireless communication facility to be located at 3300 State Highway 370 E., Sebree KY 42455. The proposed project will include a 275' lattice structure, with a 5' lightning arrestor and related ground equipment, all of which will be surrounded by a chain link fence. A map of the proposed location is enclosed for your reference.

As a neighboring property owner, this serves to notice you of your right to participate in the public comment period allowed by the Public Service Commission. You may contact the Commission's office for additional information about this request by You are also welcome to contact T-Mobile representative, Bob Crammer at 11509 Commonwealth Dr., Louisville, KY 40299 or by phone at (502) 297.6202. Please refer to Docket No. in your correspondence or telephone inquiry.

We welcome your questions and comments.

Sincerely,

Bob Crammer
Site Acquisition Specialist
Powertel/Memphis, Inc.